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Preliminary Data Results of Drift Exploration for Platinum Group Elements, Northwestern Ontario

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Preliminary Data Results of Drift Exploration for Platinum Group Elements, Northwestern Ontario

by

C.A. Searcy

2001

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ABSTRACT

Orientation studies were conducted at 8 sites in northwestern Ontario to determine the geochemical response of surficial and vegetation samples at sites with known platinum group element (PGE) mineralization in bedrock. The names of the properties studied, as referred to by the property holders, are: Samuels Lake; Nym Lake; Haines Township; Buck Lake; Powerhouse Zone – Lac des Iles; Baker Zone – Lac des Iles; Legris Lake; and Wolf Mountain.

Six of the study areas were sampled at a property scale (25 m sample spacing along transect lines) and 2 of the study sites were sampled at a regional scale (200 m sample spacing along transect lines). The media sampled were tree bark, humus, B-horizon soil and C-horizon till for geochemical analysis of the fine fraction. C-horizon till was also processed to obtain heavy minerals, such as platinum group minerals (PGMs); gold grains; kimberlite indicator minerals (KIMs); and metamorphic or magmatic massive sulphide indicator minerals (MMSIM®).

This report provides a database of geochemical and heavy mineral results that were obtained from drift prospecting on properties with PGE mineralization and an explanation of the methods used to obtain these results. A digital data set containing all sample site locations, geochemical results, heavy mineral results, microprobe results and data found in appendices of this report is released as Miscellaneous Release – Data 71, available separately from this report.

INTRODUCTION

In recent years exploration interest for platinum group elements (PGEs) has increased significantly across northern Ontario due to a dramatic increase in platinum and palladium prices. The price increase is attributed to a decrease in supply of palladium and platinum. Exploration for PGEs in northwestern Ontario has been spurred by the start of commercial production in 1993 of North American Palladium Ltd's Lac des Iles Mine, the largest producer of palladium in Canada (North American Palladium Ltd's http://www.napalladium.ca 2000). The mine is located approximately 85 km north of Thunder Bay (Figure 1).

The objective of the present project is to sample surficial materials in areas of known PGE occurrences and assess how surficial geochemistry may be applied to PGE exploration. Eight project areas in northwestern Ontario were selected for orientation studies (Figure 1). Samples were collected along transect lines that paralleled, as closely as possible, the direction of the latest glacial ice flow in the study area. At 6 of these project areas a sample spacing of 25 m was utilized. Two regional studies were done with samples taken at a spacing of 200 m. Materials sampled were C-horizon glacial till, B-horizon soil, humus and vegetation. These samples were processed for platinum group minerals (PGM), gold, kimberlite indicator minerals (KIMs) and metamorphic or magmatic massive sulphide indicator minerals (MMSIM®*) as they are described by Averill (1999).

Sample collection for this project took place during the period of July to September 2000. The total number of sites sampled at its 8 project areas was 242. The total number of samples collected for each medium are as follows: 141 humus (<177 µm); 194 B-horizon soil (< 63 µm), 163 C-horizon till (< 63 µm) for fine fraction analysis; 77 C-horizon till for heavy mineral concentrate (HMC); 77 for pebbles lithologic determination; and 24 vegetation. A complete list of sample numbers and locations is included in Appendix A.

STUDY SITES AND DESCRIPTIONS

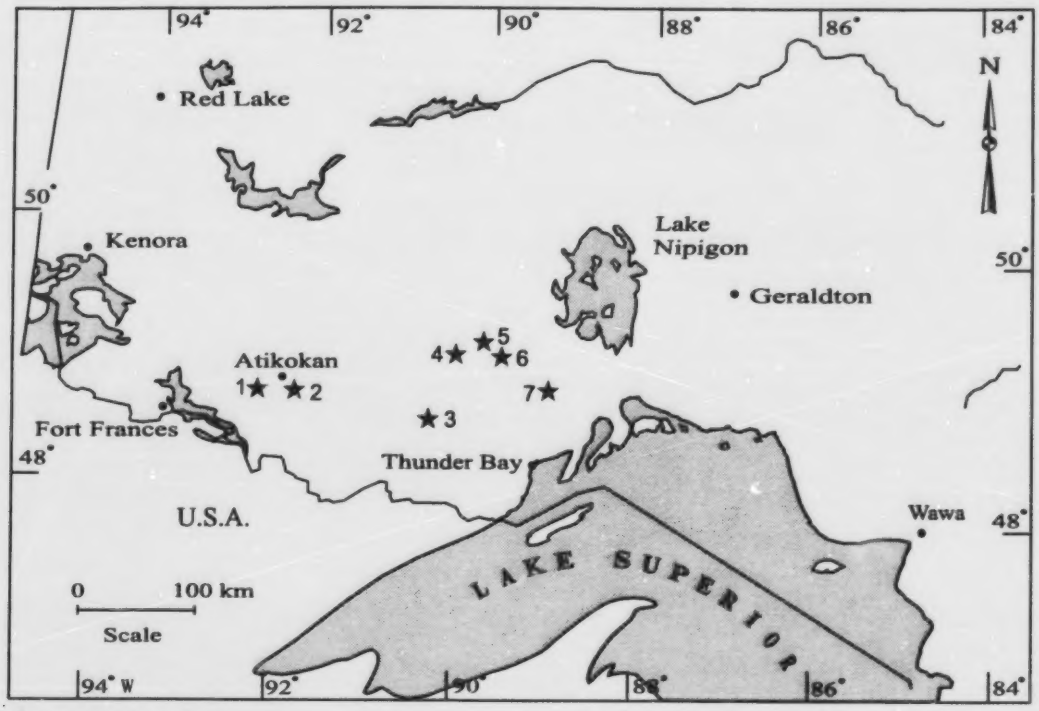
SAMUELS LAKE

The Samuels Lake property, located approximately 45 km southwest of Atikokan, Ontario (Figure 1), is currently being explored by Starcore Resources Ltd. PGEs, as well as nickel and copper have been discovered in the Samuels Lake, late Archean, mafic-ultramafic complex (Pettigrew et al. 2000). The thin glacial drift over the property is not till, therefore it was not sampled. The last glacial ice flow direction, as determined by glacial striations, is 200°. Six humus samples and 6 vegetation samples were collected on the peninsula where rock chip sample assay values have returned a weighted average of 4.1 g/t platinum, palladium and gold combined (Starcore Resources Ltd. Samuels Lake Property Report http://www.starcore.com).

Samuels Lake Bedrock Geology

The geological unit that hosts the PGE mineralization on this property is the Samuels Lake mafic-ultramafic intrusion; an elliptical body approximately 600 m long by 300 m wide (Pettigrew et al. 2000). The intrusion is concentrically zoned with a center of wehrlite surrounded by hornblendite and an outer zone of pyroxenite. The surrounding rocks are upper greenschist- to lower amphibolite-facies turbiditic

*MMSIM is a registered trademark of Overburden Drilling Management Limited, Nepean, Ontario



★ Locations of study areas

1 Samuels Lake
2 Nym Lake
3 Haines Township
4 Buck Lake
5 Lac des Iles (Baker Zone and Powerhouse Zone)
6 Legris Lake
7 Wolf Mountain

Figure 1. Location of project areas

wackes of the Quetico Subprovince (Figure 2). The Samuels Lake intrusion is considered to be one of the mafic-ultramafic Quetico Intrusions that form an east-trending chain in the northern section of the Quetico Subprovince (Watkinson and Irvine 1964). The PGE mineralization is associated with the occurrence of sulphides, especially chalcopyrite, in altered pyroxenite and wehrlite. High PGE values appear related to high-temperature, late-magmatic, hydrothermal alteration (Pettigrew et al. 2000).

NYM LAKE

The Nym Lake property is located approximately 15 km southeast of Atikokan, Ontario (Figure 1). This Archean, ultramafic intrusion has been drilled by Band-Ore Resources Ltd. The property is bedrock dominated with a thin cover of glacial till. Glacial striations indicate the last glacial ice flow direction was 200°. Twenty-four sample sites were positioned over a 1300 m by 1600 m area of the mafic intrusion and related breccia. The number of samples collected on the Nym Lake property for each type of sample material is: 24 humus; 24 B-horizon soil; 22 C-horizon till for fine fraction geochemical analysis; and 18 C-horizon till for analysis of the heavy mineral concentrate (HMC).

Nym Lake Bedrock Geology

"The Nym Lake Property covers an airborne magnetic anomaly measuring approximately 1000 m long and 500 m wide. Initial prospecting indicates that the magnetic feature coincides with the outline of a pyroxenitic intrusive complex that is variably mineralized with pyrite, pyrrhotite and chalcopyrite." (press release, May 3, 1999 http://www.band-ore.com). Band Ore Resources collected 6 grab samples along a 200 m portion of the intrusive, all but one assayed in excess of 1 g/t combined Pt and Pd and reported anomalous copper and nickel values (May 3, 1999 press release http://www.band-ore.com). The rocks surrounding this intrusion are massive granodiorite to granite of Neo- to Mesoarchean age (Ontario Geological Survey 1991).

HAINES TOWNSHIP

The Haines Township property, located approximately 8 km northwest of the former Shebandowan Mine site (Figure 1), is being explored by J. and J. Hackl and is optioned to LMX Resources Ltd. The property is underlain by the Haines Gabbro of Late Archean age (Ontario Geological Survey 1991). The area sampled is bedrock dominated with a thin cover of till. Samples were collected along 5 separate lines; the lines transected mineralization that yielded assay results of over 300 ppb PGEs (J. Hackl, prospector, personal communication, 2000). The sampling lines were aligned parallel with the last glacial ice flow direction (220° - 240°) as measured from glacial striations on the property. Sample sites were spaced at 25 m intervals. The number of samples collected on the Haines Township property for each type of material is: 50 humus; 45 B-horizon soil; 31 C-horizon till for fine fraction geochemical analysis; 10 C-horizon till for HMC analysis; and 6 vegetation.

Haines Township Bedrock Geology

The Haines Township property is located in the center of the Haines Gabbro-Anorthosite Complex. The Haines Gabbro is approximately 5 km in length by 4 km in width and intrudes the Shebandowan greenstone belt (Ontario Department of Mines 1967). A detailed geology map of the intrusive complex has been produced by Farrow (1993). North-northeast trending, alternating layers of

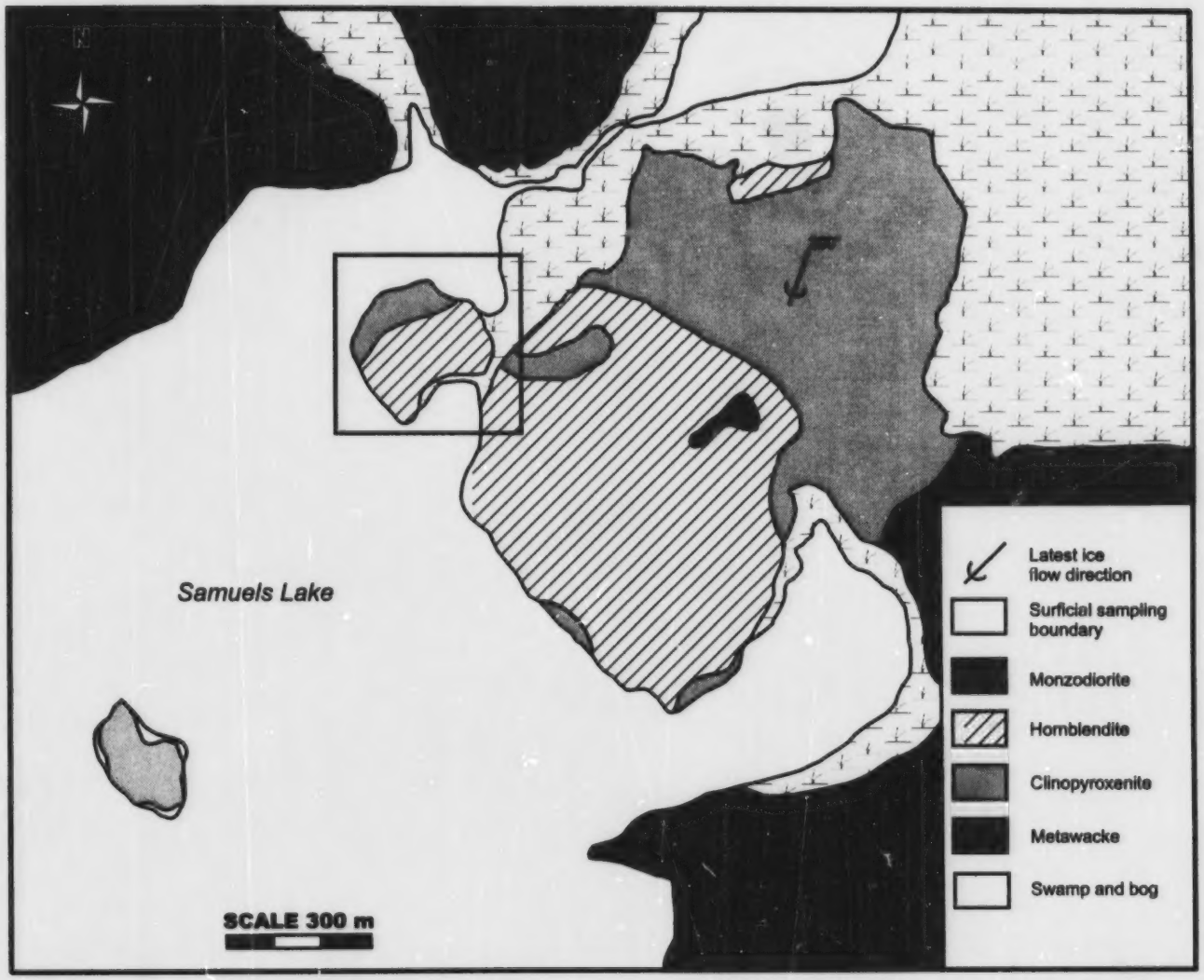


Figure 2: Bedrock geology of the Samuels Lake project area (modified from Pettigrew et al. 2000). Sample locations are shown in Appendix D and O.

melanocratic gabbro and mesocratic gabbro occur in the vicinity of the project area. A northeast trending shear zone transects the study area (Farrow 1993) (Figure 3).

BUCK LAKE

Buck Lake Ventures Ltd. are currently exploring a property on the north shore of Buck Lake, approximately 25 km west of the Lac des Iles palladium mine. The terrain is dominated by thin till over bedrock. Glacial striations indicate the latest ice flow direction to be 240°. One sampling line was located directly over the known mineralized bedrock. This line was parallel to ice flow direction with samples collected at 25 m intervals 425 m down-ice and 225 m up-ice of known mineralization. A second, shorter sampling line, located 75 m to the southeast, was run parallel to the first. The number of each sample type collected on the Buck Lake Property is: 28 humus; 28 B-horizon soil; 11 C-horizon till for fine fraction geochemical analysis; and 7 C-horizon till for HMC analysis.

Buck Lake Bedrock Geology

The mineralized bedrock at the Buck Lake property is an Archean mafic intrusion. The intrusion is described as as a brecciated medium-grained gabbro to leucogabbro matrix with angular to sub-rounded pyroxenite to hornblende gabbro fragments. Coarse sulphide blebs with 1 to 2% chalcopyrite and 1 to 2% pyrrhotite are distributed discontinuously throughout bedrock exposed in trenches. A channel saw sample taken on this property by Buck Lake Ventures Ltd. assayed at 538 ppb Pt, Pd and Au over 46 m, including 991 ppb Pt, Pd and Au over 10 m (Buck Lake Ventures Ltd. Press Release, June 22, 2000).

LAC DES ILES – BAKER ZONE

North American Palladium Ltd. Lac des Iles (LDI) mine site is located 85 km north of Thunder Bay, Ontario (Figure 1). On the Lac des Iles mine site property 2 case studies were completed, the Baker and the Powerhouse Zones. The Baker Zone is an area elevated in PGE mineralization within the mafic intrusive bedrock. The Baker Zone is located approximately 1 km northeast of the Lac des Iles Roby pit. Glacial striations indicate the latest ice flow direction to be 240°. Two sampling lines, 50 m apart, were run parallel to ice flow direction; the lines extended 425 m down-ice and 200 m up-ice from known mineralization. The terrain is dominated by thin till over bedrock. The number of each sample type collected on the Baker Zone is: 36 B-horizon soil; 45 C-horizon till for fine fraction geochemical analysis; and 11 C-horizon till for HMC analysis.

Baker Zone Bedrock Geology

The Baker Zone is located in the southern portion of the Lac des Iles intrusive complex, a mafic to ultramafic intrusion of Proterozoic age that intruded the Archean age Superior Province (www.napalladium.com/expgeology, 2001). The Baker Zone at Lac des Iles consists of a gabbronorite complex with zones of breccia, varitextured gabbro and pyroxenite (Figure 4). The rock types found at the Baker Zone are similar to those found in the Roby pit. The Baker Zone hosts some high PGE values and was one of the discovery sites for the LDI palladium mine (S. Burgess, LDI geologist, personal communication, 2000).

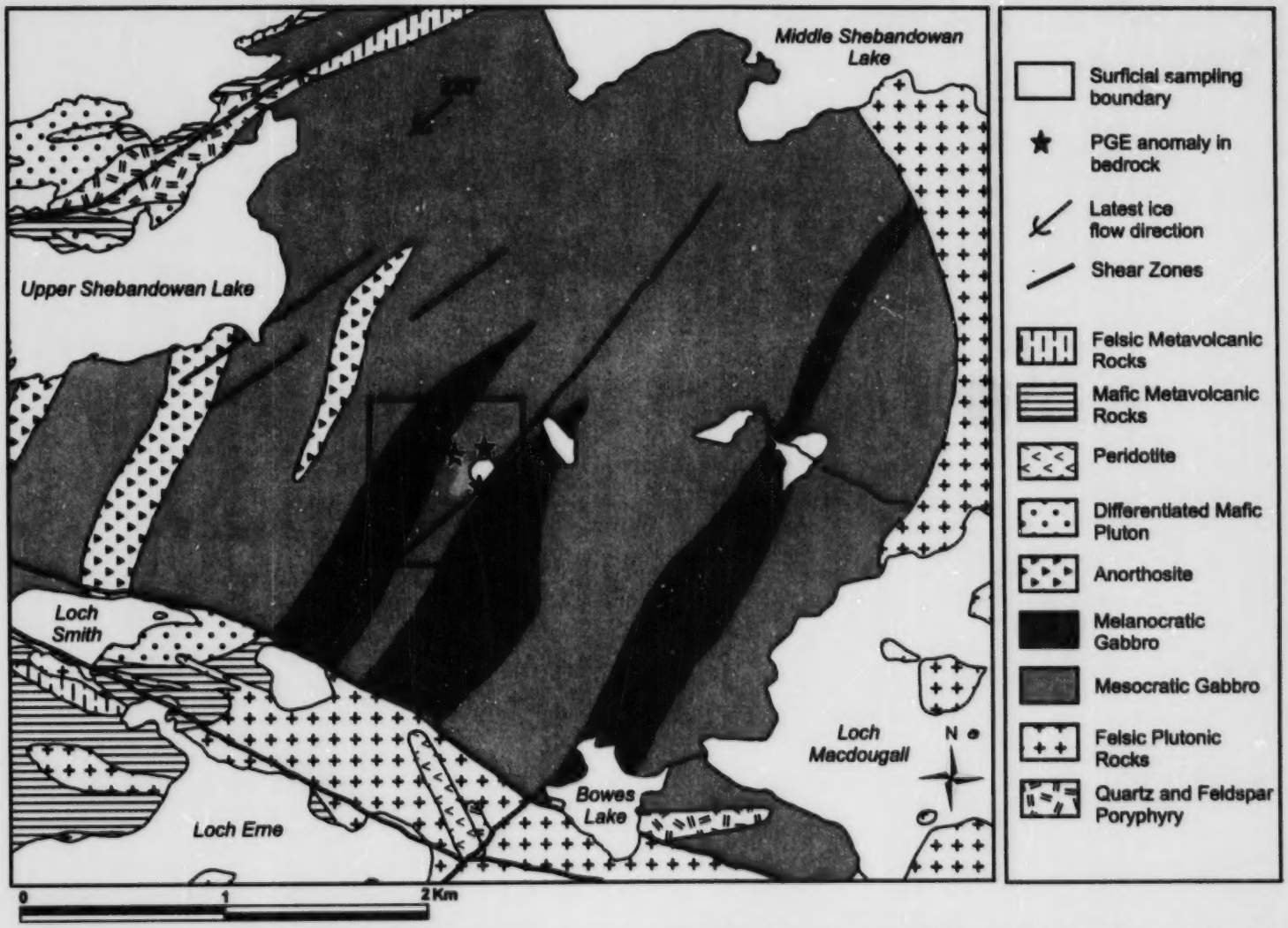


Figure 3. Bedrock geology of the Haines Township project area (modified from Farrow, 1993). Sample locations are shown in Appendix F and O.

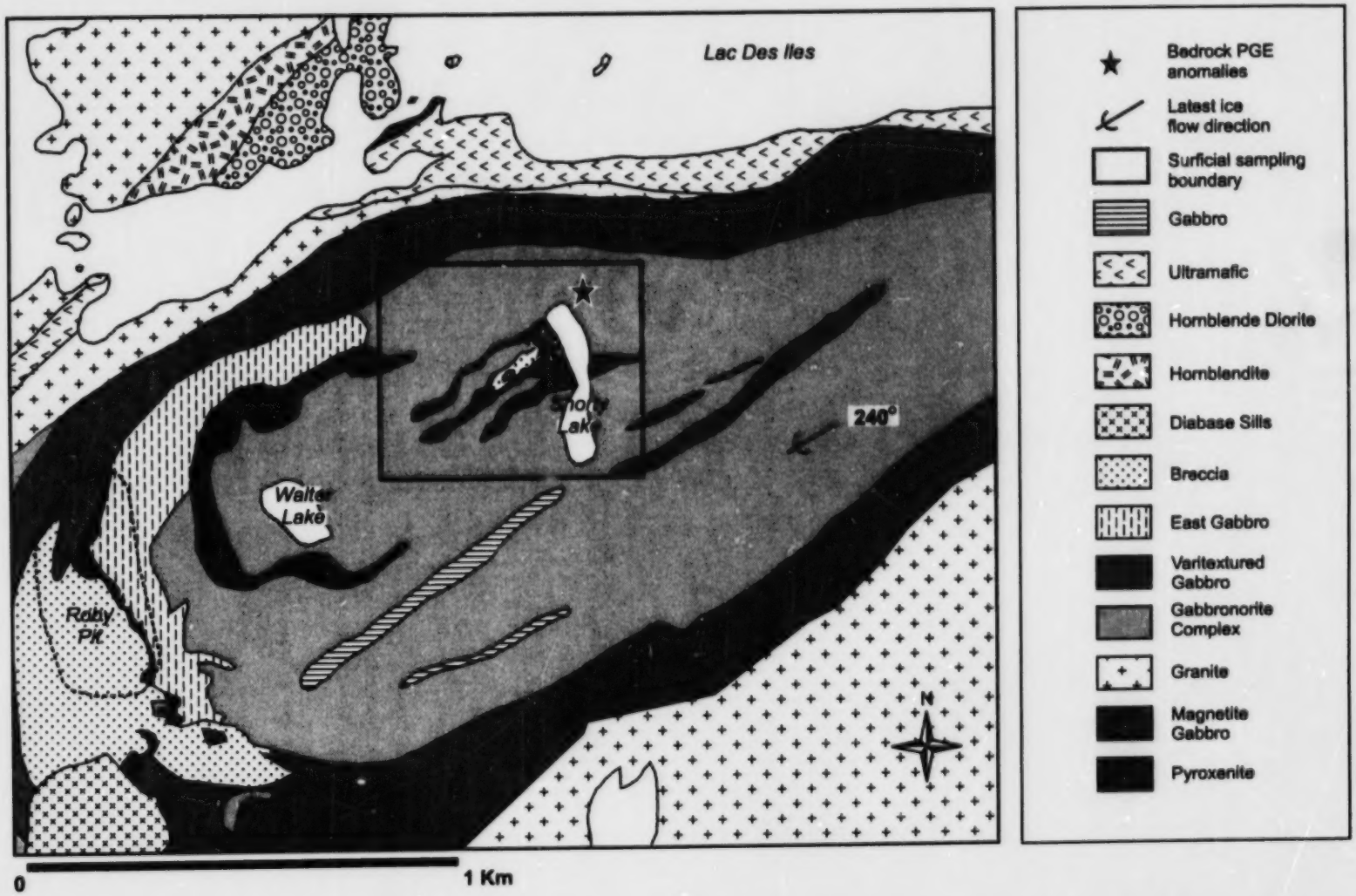


Figure 4. Bedrock geology of the Baker Zone project area at Lac des Iles (from www.napalladium.com, 2001). Sample locations are shown in Appendix I and O.

LAC DES ILES – POWERHOUSE ZONE

The Powerhouse Zone is located approximately 0.5 km southwest of the Lac des Iles Roby pit. This area has little exposed bedrock and has a thick cover of glacial drift with numerous boulders locally occurring on surface. Samples taken in this area extend 2500 m down-ice from the Roby pit at 200 m intervals. The number of samples collected on the Powerhouse Zone for each material type is: 20 B-horizon soil; 21 C-horizon till for fine fraction geochemical analysis; and 21 C-horizon till for HMC analysis.

Powerhouse Zone Bedrock Geology

The Lac des Iles intrusive complex is a mafic to ultramafic intrusion of Proterozoic age that intruded the Archean age Superior Province. Before the palladium ore was extracted, the Roby Pit was a 1 km long, 815 m wide breccia zone on surface. The bedrock types in this brecciated, mineralized zone are pyroxenite, gabbronorite and gabbro (Figure 5). Palladium ore contains 0 to 5% pyrrhotite, chalcopyrite and pentlandite. Platinum group minerals identified in the palladium ore are: vysotskite, (Pd, Ni) S; isomertieite, $Pd_{11}Sb_2$; kotulskite, Pd (Te,Bi); sperrylite, $PtAs_2$; merenskyite, $PdTe_2$; and palladium arsenide. During the period 1994 to 1999 the Roby pit produced 393 428 oz of palladium and 26 669 oz of platinum (www.napalladium.com/expgeology, 2001).

LEGRIS LAKE

Avalon Ventures Ltd. and Starcore Resources Ltd. joint venture Legris Lake property is located approximately 10 km southeast of the Lac des Iles mine. Two surficial sampling lines over sites of greater than 300 ppb combined Pt and Pd (J.C. Pedersen, Avalon Project Geologist, personal communication, 2000) were positioned parallel to the latest ice flow direction of 220°. Samples sites were spaced at 25 m intervals and extended 200 m in the down-ice direction and 175 m in the up-ice direction from known mineralization. The number of each sample type collected on the Legris Lake property is: 32 humus; 30 B-horizon soil; 27 C-horizon till for fine fraction geochemical analysis; and 8 C-horizon till for HMC analysis.

Legris Lake Bedrock Geology

The bedrock of the Legris Lake property consists of a 4 to 5 km wide mafic-ultramafic intrusive complex containing heterolithic gabbro breccias and pegmatitic gabbros (www.avalonventures.com, 20001). The Legris Lake intrusive complex is of Archean age; the surrounding rocks are Archean felsic intrusives and mafic to intermediate metavolcanics (Ontario Geological Survey 1991).

WOLF MOUNTAIN

The Wolf Mountain Property is located approximately 65 km north of Thunder Bay and is jointly controlled by Avalon Ventures Ltd., East West Resources Corporation and Canadian Golden Dragon Resources Ltd. The Wolf Mountain property is unique in that the ultramafic bedrock has weathered in place to form a regolith unit. Overburden samples were collected along existing trenches. The number of each sample type collected on the Wolf Mountain Property is: 4 humus; 11 B-horizon soil; 6 C-horizon till for fine fraction geochemical analysis; 2 C-horizon till for HMC analysis; and 12 vegetation.

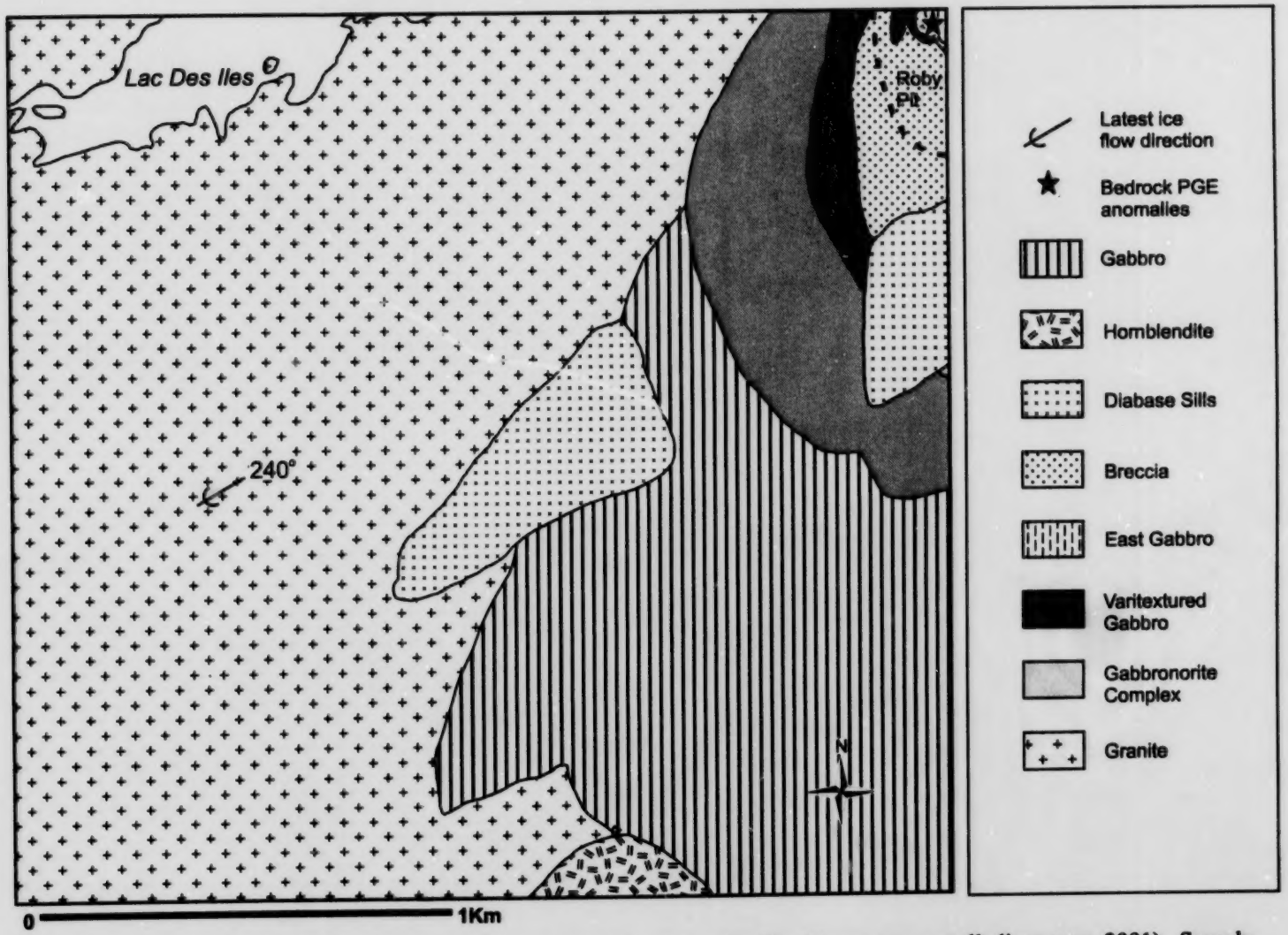


Figure 5. Bedrock geology of the Powerhouse Zone project area at Lac des Iles (from www.napalladium.com, 2001). Sample locations are shown in Appendix H and O.

Wolf Mountain Bedrock Geology

Samples taken on this property were collected from a regolith unit that has formed over a ultramafic intrusive. The intrusive is defined by a 2.3 km diameter airborne magnetic anomaly. Grab samples of the regolith have returned assay values as high as 3.8 g/t platinum and 3.8 g/t palladium (www. Avalonventures.com). The area around the ultramafic intrusion is mapped as Proterozoic age diabase intrusive rocks (Ontario Department of Mines 1971). "The PGE mineralization is associated with minor sulphide mineralization consisting mainly of pyrite and pyrrhotite. Petrographic studies revealed the presence of the platinum ore mineral sperrylite in association with the sulphides"(www. Avalonventures.com).

METHODOLOGY

Overburden samples were collected from road cuts, trench exposures and hand dug test pits of approximately 1 m in depth. Humus samples were sieved at the sample site to remove any undecomposed debris such as roots, approximately 1 kg was collected for geochemical analysis. Humus samples were further processed by sieving and the less than 177 µm size fraction was analyzed at the Geoscience Laboratories in Sudbury. B-and C-horizon samples were sieved at the sample site and approximately 2 kg of the less than 5 mm material was retained for geochemical analysis of the fine fraction (<63 µm) component at the Geoscience Laboratories in Sudbury. A typical till section and the different soil horizons sampled as part of this study are illustrated on the photo sheet included with this report (back pocket).

The humus and the fine fraction of the B-horizon and C-horizon samples were analyzed by the following methods. Trace element analysis was completed using inductively coupled plasma – atomic emission spectroscopy (ICP-AES). Major element analysis was undertaken using inductively coupled plasma – mass spectrometry (ICP-MS). In both cases material was digested by means of aqua regia acid digestion. Pt, Pd and Au values were determined by fire assay with an ICP-AES finish.

Ten kg C-horizon till samples were sieved at the collection site and the less than 5 mm material was retained for HMC analysis at a private laboratory. Pebbles removed from the till by sieving were collected and stored. Heavy minerals were separated from the -2 mm fraction of C-horizon tills by wet gravity tabling, producing a "table concentrate", and then further concentrated to >3.2 specific gravity using density dependent setting in methylene iodide. Magnetic minerals were removed from the methylene iodide HMC using an automagnet. The weights of the resulting fractions were recorded. The tabling stage, a preliminary count of gold grains, including size and shape determinations was undertaken. The resulting HMC concentrate was picked for indicator minerals that are associated with PGEs, gold, kimberlite, base metals and massive sulphides. The gold grain content of the table concentrates was further refined using a secondary panning procedure to obtain more exact grain counts. The size and shape of the panned gold grains were recorded before they were returned to the table concentrate (Bajc 2000). The –0.25 mm size fraction was micropanned for platinum group minerals (PGMs).

The outer bark of black spruce trees was collected by scraping and peeling the bark from the tree. A minimum of 50 g of this material was placed in a 470°C furnace until it was reduced to ash. Ash samples underwent ICP-MS analysis following an aqua regia digestion. The methods used for vegetation analysis is considered to be the best for determining precious and base metal values (Dunn 1991).

QUALITY CONTROL OF DATA

Five percent of the samples analyzed were duplicate samples. These were inserted to provide a check on the precision of data. All data is available in Miscellaneous Release Data – 71 (MRD 71, available separately from this report). An additional five percent of the samples analyzed were certified reference standards inserted to provide a check on the accuracy of the analysis. The average values, accuracy calculations and the certified reference values for the humus and C-horizon fine fraction analysis are displayed in Appendix B.

FINE FRACTION GEOCHEMISTRY

The fine fraction (<63 μm) and (<177 μm) geochemistry data is available in MRD 71 and Appendix C. For each property, proportional dot plots based on percentiles, have been produced for each media sampled (bark, humus, B-horizon fine fraction, C-horizon till fine fraction). Proportional dot plots for the following elements, Pd, Pt, Cu, Ni and Au are included in Appendixes D, E, F, G, H, I, J and K.

CORRELATION MATRICES

For each property correlation matrices were produced for the fine fraction geochemistry of each media sampled. As well, correlation matrices were also produced for single elements to show the correlation between media sampled. When interpreting the matrices, values less than 0.6 are not considered to have a correlation, values greater than 0.6 have some correlation and values greater than 0.7 have a strong correlation. The geochemical data used to produce the correlation matrices was not always normally distributed data. In cases where statistical calculations show that the distribution of a specific data set would more closely resemble a normal distribution, if the data is log transformed, a log transformed data set was used to produce the correlation matrices. All the bark analysis, Buck Lake C-horizon, as well as all Samuels Lake and Wolf Mountain analysis were excluded from these correlation matrices because not enough samples were collected on each property to produce statistically acceptable correlations.

Property Correlation Matrices

For each property, correlation matrices were produced for the fine fraction geochemistry of each specific media sampled, humus, B-horizon and C-horizon (Appendix L). The matrices display the correlation between the following elements, Au, Pd, Pt, Fe, Mn, Ag, Cd, Co, Cr, Cu, Mo, Ni, Pb, Sb, W and Zn. These elements where chosen because they have been found in association with Pt and Pd mineralization at other localities in Ontario (Bajc 1999, 2000; Fortescue et al. 1988). Pd and Pt values correlate with each other, with a few exceptions. There are no consistent trends of other elements that correlate well with Pd and Pt. Cu is the only element that correlates well with Pd values on 3 different properties in the same media, the C-horizon till. An important correlation to note is at the Powerhouse Zone, the only project area currently being mined, has a strong correlation between Pd-Pt-Au-Cu in the C-horizon till.

Single Element Correlation Matrices

Correlation matrices were also produced for single elements to show the correlation between media sampled (Appendix M). There are no correlations for Pt, Pd or Au between the different soil

horizons on any of the properties. The only correlations between soil horizons are on the Nym Lake property for Ni and Cu between the B and C-horizons.

COMPARISONS BETWEEN PROPERTIES

To show the range of geochemical results between the different properties all values have been log transformed and plotted on a chart (Appendix N). Each chart represents a specific media sampled, that is, humus, B-horizon and C-horizon. For each of these media the following elements were plotted; palladium, platinum, copper, nickel and gold. Each chart shows the entire range of values for samples collected on each property. Wolf Mountain has the highest upper range of values for Pd and Pt in all 3 horizons. A possible contributing factor to these high values may be that the bedrock containing mineralization is extremely weathered. The ranges of Pt and Pd values for the other properties have overlapping ranges in all media sampled. The highest upper ranges for Pt and Pd values in all media are on the Powerhouse Zone-LDI, Baker Zone-LDI, Legris Lake, Buck Lake and Haines Township properties.

HEAVY MINERAL DATA

Platinum Group Minerals

The platinum group minerals observed in the pan concentrate are very few and were usually in the silt-sized fraction (< 0.25 mm). The mineral types observed were native platinum and sperrylite, a Pt-As sulfide. Two native platinum grains were recovered in sample number 00-CAS-4066 on the Legris Lake property. Two sperrylite grains were observed in sample number 00-CAS-4263 on the Nym Lake property and 1 sperrylite grain was recovered in sample number 00-CAS-4354 of the Powerhouse Zone – LDI. The location of these sample sites are provided in Appendix O. Only native PGE minerals (not PGE arsenides or tellurite) are likely to be preserved in overburden because all the samples were oxidized (S. Averill, Overburden Drilling Management, personal communication, 2000). The results of the minerals picked are listed in Appendix P.

Gold Grain Data

Gold grains from the HMC of C-horizon till samples have been classified by shape (Appendix Q). The shape classifications are used to estimate the transport distance of the gold grains from their bedrock source. Pristine grains are considered to have the shortest transport distance, modified grains an intermediate transport distance and reshaped grains the longest transport distance. There are 18 sample sites that report more than 7 gold grains (>75th percentile). Elevated total gold grain counts have been reported on all properties except Wolf Mountain and the Baker Zone.

Metamorphic or Magmatic Massive Sulphide Indicator Minerals

Metamorphic or magmatic massive sulphide indicator minerals (MMSIM®*) are listed in Appendix R. One of the most interesting heavy minerals picked from the till are Cr-andradite garnets (photo sheet, back pocket). Cr-garnets are known to be associated with Ni-Cu-PGE mineralization (S. Averill, Overburden Drilling Management, personal communication, 2000). These garnets were found in every sample collected on the Lac des Iles property in estimated quantities ranging from 1 to 2000. No

*MMSIM is a registered trademark of Overburden Drilling Management Limited, Nepean, Ontario

andradite garnets were found in till samples from other properties sampled during this study. Figure 6 shows the distribution of the estimated numbers of Cr-andradite garnets in till samples from the 2 areas sampled at Lac des Iles property, the Baker Zone and the Powerhouse Zone. A number of the andradite garnets from each sample were analyzed on a microprobe and the results are provided in MRD 71 (available separately from this report). The source rock for these Cr-andradite garnets was unknown at the time of writing of this report. They are not known to occur in the Lac des Iles Intrusive Complex (LDIIC) or in the country rocks northeast of the LDIIC. Due to the number of grains per sample and the distribution, it is likely that these Cr-andradite garnets have a local bedrock source. More work needs to be done to determine the host rock of these garnets before they can be used as an indicator mineral in the LDI area. What is known about the andradite garnets found in the till at LDI is that they are pale emerald green to green-white in colour and that they are elevated in Cr.

Of all the coloured spinels picked from the HMC (Appendix R) only one was a gahnite from a till sample (00-CAS-4269) on the Nym Lake property (Appendix O). The microprobe analysis for this gahnite is provided in MRD 71. Gahnite is a zinc-bearing spinel that is used as an indicator mineral of polymetallic deposits in high grade metamorphic terrain (Morris et al. 1997). The occurrence of a single grain indicates that it is not likely associated with the PGE mineralization on the Nym Lake property, but from a more distant source.

Kimberlite Indicator Minerals

All the grains picked as possible kimberlite indicator minerals (KIMs) are listed in Appendix S. The microprobe analysis for the diopsides, garnets and chromites picked are provided in MRD 71. Of all the garnets picked and microprobed as KIMs from the C-horizon till HMC samples, only 2 were determined to be kimberlitic. These 2 garnets plot as G9 Cr-pyrope garnets on a CrO versus CaO plot of Dawson and Stephens (1975). One of these garnets was recovered from sample number 00-CAS-4161 of the Haines Township property and the other from sample number 00-CAS-4256 of the Nym Lake property. The locations of these sample sites can be seen in Appendix O and the microprobe results are available in MRD 71.

Chromites picked from the HMC of C-horizon till are listed on the KIMs spreadsheet (Appendix S). All 141 microprobed chromite grains were plotted on a standard chromite plot used to determine if they are kimberlitic chromites (Fipke et al. 1995) (Figure 7). Only one grain has a kimberlitic chromite composition and was recovered from sample number 00-CAS-4203 on the Haines Township property (Appendix O). Given the numbers and distribution of the KIMs found during this study, none of the properties studied appear to be prospective for kimberlite.

In the case of PGE occurrences, chromites may be used as an indicator of layering or zoning within a mafic-ultramafic intrusion (S. Averill, Overburden Drilling Management, personal communication, 2000). What is interesting in this study is that no one sample produced more than 2 chromite grains with the exception of the 2 study areas on the LDIIC. The Baker Zone-LDI has samples with as many as 200 chromite grains (estimated count). Figure 8 shows the distribution of chromite grains at LDI. Of the 141 chromite grains microprobed none where found to have PGE inclusions. Any inclusions in chromite grains are detailed in the comments column of the microprobe analysis MRD 71.

Kimberlitic Cr-diopsides are defined by McClenaghan et al. (1999) as > 1.5 wt % Cr_2O_3. In this survey none of the Cr-diopsides microprobed contained > 1.5 wt% Cr_2O_3. However, 5 grains plot within the kimberlitic field defined by the ternary Cr_2O_3-Al_2O_3-Na_2 plot (Morris et al. 2000). The sample numbers that contain these Cr-diopsides are: 00-CAS-4107-01; 00-CAS-4107-02; 00-CAS-4107-03 of the

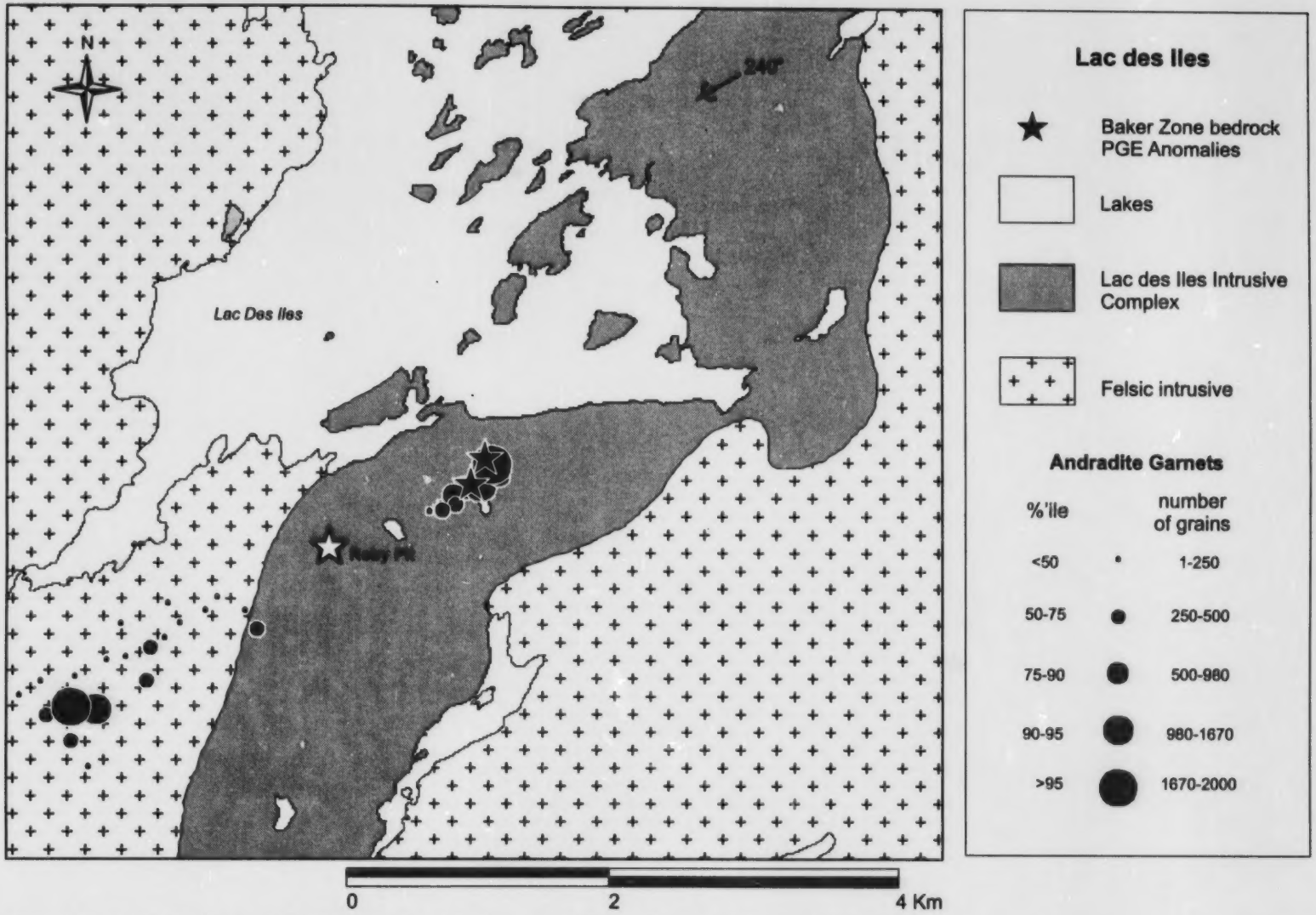


Figure 6. Andradite garnet distribution plot, LDI property (Baker Zone and Powerhouse Zone).

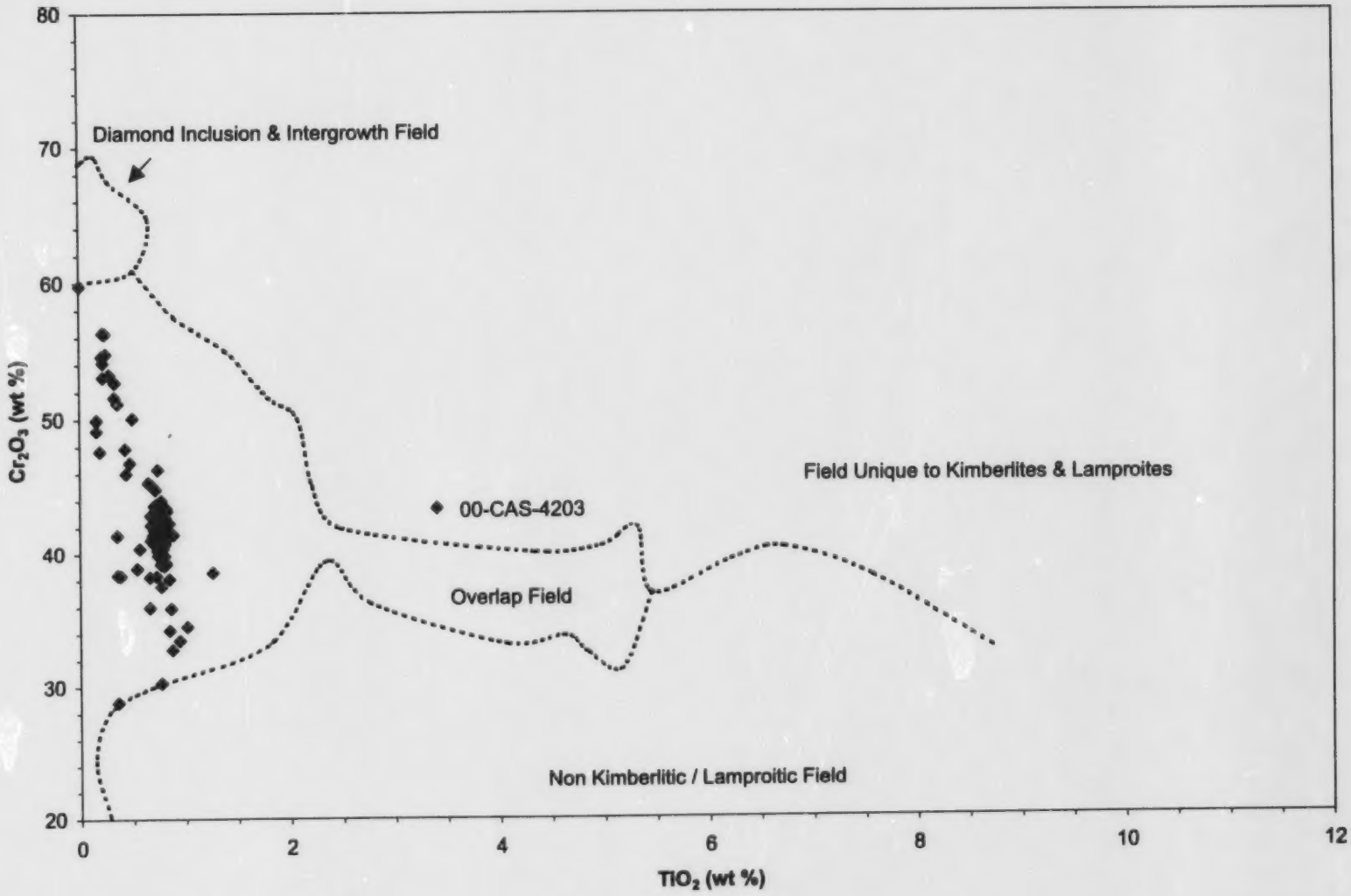


Figure 7. Chromites picked from all properties, plot of Cr_20_3 vs TiO_2 (after Fipke et al. 1995).

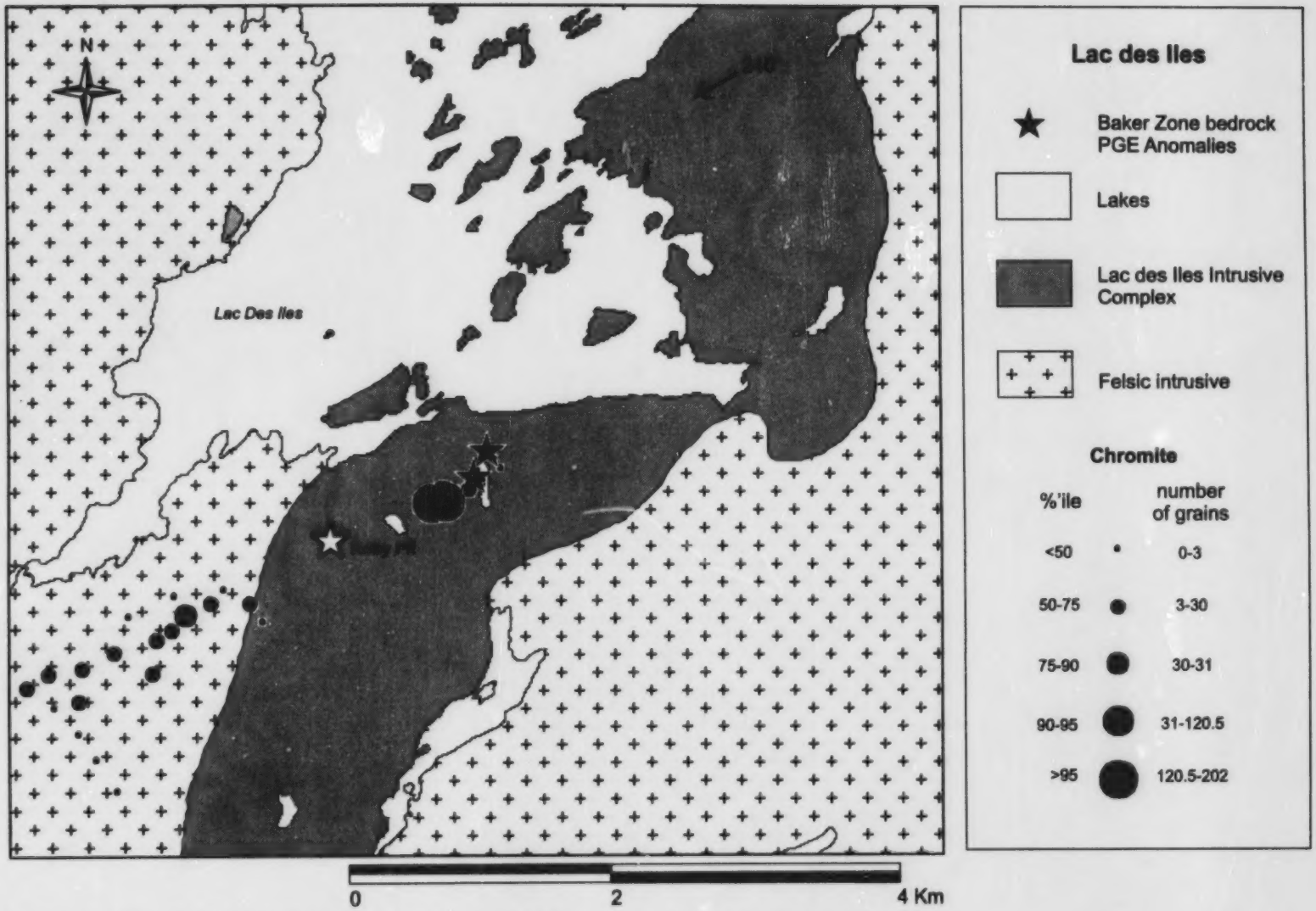


Figure 8. Chromite distribution plot, LDI property (Baker zone and Powerhouse zone).

Wolf Mountain property; and 00-CAS-4165-05 and 00-CAS-4198-09 of the Haines Township property. The microprobe results of all the diopsides recovered in this study are included in MRD 71.

FUTURE WORK

This report contains all data acquired for the study areas as well as a preliminary interpretation of that data. The Ontario Geological Survey will complete a more in-depth analysis of the data in the future.

ACKNOWLEDGEMENTS

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APPENDIX A

List of Samples and Locations

All UTM are in NAD 27

The following abbreviations are used in this appendix:

LDI = Lac des Iles
HMC = heavy mineral concentrate

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 1	Pebbles	16	282624	5449507	Buck Lake
00-CAS- 7	Pebbles	16	282539	5449450	Buck Lake
00-CAS- 13	Pebbles	16	282427	5449406	Buck Lake
00-CAS- 17	Pebbles	16	282345	5449355	Buck Lake
00-CAS- 20	Pebbles	16	282566	5449397	Buck Lake
00-CAS- 23	Pebbles	16	282699	5449546	Buck Lake
00-CAS- 29	Pebbles	16	282805	5449643	Buck Lake
00-CAS- 54	Pebbles	16	315630	5444180	Legris Lake
00-CAS- 58	Pebbles	16	315682	5444214	Legris Lake
00-CAS- 59	Pebbles	16	315560	5444077	Legris Lake
00-CAS- 63	Pebbles	16	315488	5444023	Legris Lake
00-CAS- 66	Pebbles	16	315579	5444060	Legris Lake
00-CAS- 71	Pebbles	16	315515	5443989	Legris Lake
00-CAS- 74	Pebbles	16	315457	5443909	Legris Lake
00-CAS- 76	Pebbles	16	315648	5444144	Legris Lake
00-CAS- 102	Pebbles	16	356326	5432584	Wolf Mountain
00-CAS- 107	Pebbles	16	356514	5432413	Wolf Mountain
00-CAS- 151	Pebbles	15	696322	5389431	Haines Township
00-CAS- 161	Pebbles	15	696067	5389564	Haines Township
00-CAS- 164	Pebbles	15	696199	5389543	Haines Township
00-CAS- 169	Pebbles	15	696122	5389497	Haines Township
00-CAS- 175	Pebbles	15	696163	5389378	Haines Township
00-CAS- 181	Pebbles	15	696077	5389286	Haines Township
00-CAS- 185	Pebbles	15	696023	5389210	Haines Township
00-CAS- 192	Pebbles	15	696280	5389504	Haines Township
00-CAS- 198	Pebbles	15	696202	5389148	Haines Township
00-CAS- 203	Pebbles	15	696116	5389056	Haines Township
00-CAS- 251	Pebbles	15	615303	5394069	Nym Lake
00-CAS- 255	Pebbles	15	615379	5394214	Nym Lake
00-CAS- 258	Pebbles	15	614802	5394388	Nym Lake
00-CAS- 259	Pebbles	15	614855	5394469	Nym Lake
00-CAS- 260	Pebbles	15	614877	5394319	Nym Lake
00-CAS- 261	Pebbles	15	614902	5394264	Nym Lake
00-CAS- 262	Pebbles	15	615056	5394192	Nym Lake
00-CAS- 263	Pebbles	15	615142	5394184	Nym Lake
00-CAS- 264	Pebbles	15	615522	5394050	Nym Lake
00-CAS- 265	Pebbles	15	615495	5394260	Nym Lake
00-CAS- 266	Pebbles	15	615371	5394351	Nym Lake
00-CAS- 267	Pebbles	15	615638	5394543	Nym Lake
00-CAS- 268	Pebbles	15	615641	5394834	Nym Lake
00-CAS- 269	Pebbles	15	615197	5394302	Nym Lake
00-CAS- 270	Pebbles	15	615077	5394474	Nym Lake
00-CAS- 274	Pebbles	15	615130	5394873	Nym Lake
00-CAS- 275	Pebbles	15	615452	5394965	Nym Lake
00-CAS- 276	Pebbles	15	616186	5395007	Nym Lake
00-CAS- 301	Pebbles	16	310351	5450029	Baker Zone - LDI
00-CAS- 302	Pebbles	16	310333	5450015	Baker Zone - LDI
00-CAS- 305	Pebbles	16	310253	5449962	Baker Zone - LDI
00-CAS- 308	Pebbles	16	310152	5449903	Baker Zone - LDI
00-CAS- 313	Pebbles	16	310074	5449852	Baker Zone - LDI
00-CAS- 316	Pebbles	16	310440	5450031	Baker Zone - LDI
00-CAS- 320	Pebbles	16	310343	5449960	Baker Zone - LDI

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 324	Pebbles	16	310263	5449901	Baker Zone - LDI
00-CAS- 328	Pebbles	16	310167	5449862	Baker Zone - LDI
00-CAS- 344	Pebbles	16	310526	5450185	Baker Zone - LDI
00-CAS- 351	Pebbles	16	310577	5450111	Baker Zone - LDI
00-CAS- 354	Pebbles	16	308264	5449036	Powerhouse - LDI
00-CAS- 355	Pebbles	16	308175	5449177	Powerhouse - LDI
00-CAS- 356	Pebbles	16	308049	5448858	Powerhouse - LDI
00-CAS- 357	Pebbles	16	308157	5448927	Powerhouse - LDI
00-CAS- 358	Pebbles	16	307736	5448763	Powerhouse - LDI
00-CAS- 359	Pebbles	16	307505	5448646	Powerhouse - LDI
00-CAS- 360	Pebbles	16	307841	5449029	Powerhouse - LDI
00-CAS- 362	Pebbles	16	307479	5448411	Powerhouse - LDI
00-CAS- 363	Pebbles	16	307474	5448172	Powerhouse - LDI
00-CAS- 364	Pebbles	16	307604	5447981	Powerhouse - LDI
00-CAS- 365	Pebbles	16	307755	5447755	Powerhouse - LDI
00-CAS- 366	Pebbles	16	308021	5448614	Powerhouse - LDI
00-CAS- 367	Pebbles	16	307259	5448607	Powerhouse - LDI
00-CAS- 368	Pebbles	16	307104	5448508	Powerhouse - LDI
00-CAS- 369	Pebbles	16	307301	5448360	Powerhouse - LDI
00-CAS- 370	Pebbles	16	308822	5448992	Powerhouse - LDI
00-CAS- 371	Pebbles	16	308733	5449129	Powerhouse - LDI
00-CAS- 372	Pebbles	16	308445	5449128	Powerhouse - LDI
00-CAS- 373	Pebbles	16	308535	5449224	Powerhouse - LDI
00-CAS- 374	Pebbles	16	307873	5448787	Powerhouse - LDI
00-CAS- 375	Pebbles	16	307654	5448397	Powerhouse - LDI
00-CAS- 1001	Humus	16	282624	5449507	Buck Lake
00-CAS- 1004	Humus	16	282598	5449499	Buck Lake
00-CAS- 1005	Humus	16	282578	5449483	Buck Lake
00-CAS- 1006	Humus	16	282554	5449464	Buck Lake
00-CAS- 1007	Humus	16	282539	5449450	Buck Lake
00-CAS- 1008	Humus	16	282516	5449447	Buck Lake
00-CAS- 1009	Humus	16	282501	5449420	Buck Lake
00-CAS- 1010	Humus	16	282482	5449415	Buck Lake
00-CAS- 1011	Humus	16	282469	5449412	Buck Lake
00-CAS- 1012	Humus	16	282445	5449400	Buck Lake
00-CAS- 1013	Humus	16	282427	5449406	Buck Lake
00-CAS- 1014	Humus	16	282402	5449391	Buck Lake
00-CAS- 1015	Humus	16	282378	5449378	Buck Lake
00-CAS- 1016	Humus	16	282358	5449369	Buck Lake
00-CAS- 1017	Humus	16	282345	5449355	Buck Lake
00-CAS- 1018	Humus	16	282324	5449339	Buck Lake
00-CAS- 1019	Humus	16	282305	5449326	Buck Lake
00-CAS- 1020	Humus	16	282566	5449397	Buck Lake
00-CAS- 1022	Humus	16	282680	5449546	Buck Lake
00-CAS- 1024	Humus	16	282717	5449559	Buck Lake
00-CAS- 1025	Humus	16	282733	5449561	Buck Lake
00-CAS- 1026	Humus	16	282750	5449579	Buck Lake
00-CAS- 1027	Humus	16	282767	5449597	Buck Lake
00-CAS- 1028	Humus	16	282790	5449626	Buck Lake
00-CAS- 1029	Humus	16	282805	5449643	Buck Lake
00-CAS- 1030	Humus	16	282553	5449380	Buck Lake
00-CAS- 1031	Humus	16	282529	5449370	Buck Lake

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 1032	Humus	16	282507	5449358	Buck Lake
00-CAS- 1051	Humus	16	315581	5444083	Legris Lake
00-CAS- 1052	Humus	16	315591	5444097	Legris Lake
00-CAS- 1053	Humus	16	315604	5444130	Legris Lake
00-CAS- 1054	Humus	16	315630	5444180	Legris Lake
00-CAS- 1055	Humus	16	315641	5444162	Legris Lake
00-CAS- 1056	Humus	16	315652	5444184	Legris Lake
00-CAS- 1057	Humus	16	315667	5444196	Legris Lake
00-CAS- 1058	Humus	16	315682	5444214	Legris Lake
00-CAS- 1059	Humus	16	315560	5444077	Legris Lake
00-CAS- 1060	Humus	16	315541	5444060	Legris Lake
00-CAS- 1061	Humus	16	315527	5444051	Legris Lake
00-CAS- 1062	Humus	16	315503	5444024	Legris Lake
00-CAS- 1063	Humus	16	315488	5444023	Legris Lake
00-CAS- 1064	Humus	16	315479	5444039	Legris Lake
00-CAS- 1065	Humus	16	315457	5443970	Legris Lake
00-CAS- 1066	Humus	16	315579	5444060	Legris Lake
00-CAS- 1067	Humus	16	315564	5444036	Legris Lake
00-CAS- 1068	Humus	16	315548	5444016	Legris Lake
00-CAS- 1069	Humus	16	315537	5443997	Legris Lake
00-CAS- 1070	Humus	16	315520	5443989	Legris Lake
00-CAS- 1071	Humus	16	315515	5443989	Legris Lake
00-CAS- 1072	Humus	16	315493	5443953	Legris Lake
00-CAS- 1073	Humus	16	315475	5443932	Legris Lake
00-CAS- 1074	Humus	16	315457	5443909	Legris Lake
00-CAS- 1075	Humus	16	315441	5443902	Legris Lake
00-CAS- 1076	Humus	16	315648	5444144	Legris Lake
00-CAS- 1077	Humus	16	315595	5444102	Legris Lake
00-CAS- 1078	Humus	16	315623	5444105	Legris Lake
00-CAS- 1079	Humus	16	315630	5444127	Legris Lake
00-CAS- 1080	Humus	16	315662	5444182	Legris Lake
00-CAS- 1081	Humus	16	315672	5444178	Legris Lake
00-CAS- 1082	Humus	16	315689	5444205	Legris Lake
00-CAS- 1108	Humus	16	356520	5432563	Wolf Mountain
00-CAS- 1109	Humus	16	356516	5432588	Wolf Mountain
00-CAS- 1110	Humus	16	356524	5432383	Wolf Mountain
00-CAS- 1111	Humus	16	356528	5432360	Wolf Mountain
00-CAS- 1112	Humus	16	356528	5432360	Wolf Mountain
00-CAS- 1151	Humus	15	696322	5389431	Haines Township
00-CAS- 1152	Humus	15	696354	5389473	Haines Township
00-CAS- 1153	Humus	15	696322	5389303	Haines Township
00-CAS- 1154	Humus	15	696292	5389253	Haines Township
00-CAS- 1155	Humus	15	696265	5389247	Haines Township
00-CAS- 1156	Humus	15	696256	5389211	Haines Township
00-CAS- 1157	Humus	15	696241	5389206	Haines Township
00-CAS- 1158	Humus	15	696229	5389180	Haines Township
00-CAS- 1159	Humus	15	696215	5389158	Haines Township
00-CAS- 1160	Humus	15	696084	5389583	Haines Township
00-CAS- 1161	Humus	15	696067	5389564	Haines Township
00-CAS- 1162	Humus	15	696055	5389570	Haines Township
00-CAS- 1163	Humus	15	696018	5389551	Haines Township
00-CAS- 1166	Humus	15	696186	5389535	Haines Township

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 1167	Humus	15	696158	5389517	Haines Township
00-CAS- 1168	Humus	15	696138	5389508	Haines Township
00-CAS- 1169	Humus	15	696122	5389497	Haines Township
00-CAS- 1171	Humus	15	696085	5389463	Haines Township
00-CAS- 1172	Humus	15	696211	5389433	Haines Township
00-CAS- 1173	Humus	15	696197	5389427	Haines Township
00-CAS- 1174	Humus	15	696180	5389404	Haines Township
00-CAS- 1175	Humus	15	696163	5389378	Haines Township
00-CAS- 1176	Humus	15	696151	5389360	Haines Township
00-CAS- 1177	Humus	15	696138	5389341	Haines Township
00-CAS- 1178	Humus	15	696125	5389331	Haines Township
00-CAS- 1179	Humus	15	696095	5389320	Haines Township
00-CAS- 1180	Humus	15	696079	5389305	Haines Township
00-CAS- 1181	Humus	15	696077	5389286	Haines Township
00-CAS- 1182	Humus	15	696056	5389262	Haines Township
00-CAS- 1183	Humus	15	696056	5389242	Haines Township
00-CAS- 1184	Humus	15	696032	5389226	Haines Township
00-CAS- 1185	Humus	15	696023	5389210	Haines Township
00-CAS- 1186	Humus	15	696001	5389196	Haines Township
00-CAS- 1187	Humus	15	695977	5389178	Haines Township
00-CAS- 1188	Humus	15	695960	5389154	Haines Township
00-CAS- 1189	Humus	15	696230	5389457	Haines Township
00-CAS- 1190	Humus	15	696230	5389457	Haines Township
00-CAS- 1191	Humus	15	696244	5389476	Haines Township
00-CAS- 1192	Humus	15	696280	5389504	Haines Township
00-CAS- 1193	Humus	15	696285	5389519	Haines Township
00-CAS- 1194	Humus	15	696298	5389552	Haines Township
00-CAS- 1195	Humus	15	696313	5389559	Haines Township
00-CAS- 1196	Humus	15	696327	5389567	Haines Township
00-CAS- 1197	Humus	15	696352	5389591	Haines Township
00-CAS- 1198	Humus	15	696202	5389148	Haines Township
00-CAS- 1199	Humus	15	696176	5389126	Haines Township
00-CAS- 1200	Humus	15	696162	5389117	Haines Township
00-CAS- 1201	Humus	15	696137	5389075	Haines Township
00-CAS- 1202	Humus	15	696126	5389065	Haines Township
00-CAS- 1203	Humus	15	696116	5389056	Haines Township
00-CAS- 1204	Humus	15	696092	5389028	Haines Township
00-CAS- 1251	Humus	15	615303	5394069	Nym Lake
00-CAS- 1252	Humus	15	615298	5394042	Nym Lake
00-CAS- 1253	Humus	15	615288	5394026	Nym Lake
00-CAS- 1254	Humus	15	615317	5394093	Nym Lake
00-CAS- 1255	Humus	15	615379	5394214	Nym Lake
00-CAS- 1256	Humus	15	615379	5394214	Nym Lake
00-CAS- 1257	Humus	15	614686	5394522	Nym Lake
00-CAS- 1258	Humus	15	614802	5394388	Nym Lake
00-CAS- 1259	Humus	15	614855	5394469	Nym Lake
00-CAS- 1260	Humus	15	614877	5394319	Nym Lake
00-CAS- 1261	Humus	15	614902	5394264	Nym Lake
00-CAS- 1262	Humus	15	615056	5394192	Nym Lake
00-CAS- 1263	Humus	15	615142	5394184	Nym Lake
00-CAS- 1264	Humus	15	615522	5394050	Nym Lake
00-CAS- 1265	Humus	15	615495	5394260	Nym Lake

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 1266	Humus	15	615371	5394351	Nym Lake
00-CAS- 1267	Humus	15	615638	5394543	Nym Lake
00-CAS- 1268	Humus	15	615641	5394834	Nym Lake
00-CAS- 1269	Humus	15	615197	5394302	Nym Lake
00-CAS- 1270	Humus	15	615077	5394474	Nym Lake
00-CAS- 1271	Humus	15	614756	5394389	Nym Lake
00-CAS- 1272	Humus	15	614756	5394389	Nym Lake
00-CAS- 1273	Humus	15	615561	5394431	Nym Lake
00-CAS- 1274	Humus	15	615130	5394873	Nym Lake
00-CAS- 1275	Humus	15	615452	5394965	Nym Lake
00-CAS- 1276	Humus	15	616186	5395007	Nym Lake
00-CAS- 1401	Humus	15	566591	5385527	Samuel Lake
00-CAS- 1402	Humus	15	566585	5385518	Samuel Lake
00-CAS- 1403	Humus	15	566592	5385507	Samuel Lake
00-CAS- 1404	Humus	15	566607	5385532	Samuel Lake
00-CAS- 1405	Humus	15	566638	5385534	Samuel Lake
00-CAS- 1406	Humus	15	566688	5385537	Samuel Lake
00-CAS- 2001	B-horizon	16	282624	5449507	Buck Lake
00-CAS- 2004	B-horizon	16	282598	5449499	Buck Lake
00-CAS- 2005	B-horizon	16	282578	5449483	Buck Lake
00-CAS- 2006	B-horizon	16	282554	5449464	Buck Lake
00-CAS- 2007	B-horizon	16	282539	5449450	Buck Lake
00-CAS- 2008	B-horizon	16	282516	5449447	Buck Lake
00-CAS- 2009	B-horizon	16	282501	5449420	Buck Lake
00-CAS- 2011	B-horizon	16	282469	5449412	Buck Lake
00-CAS- 2012	B-horizon	16	282445	5449400	Buck Lake
00-CAS- 2013	B-horizon	16	282427	5449406	Buck Lake
00-CAS- 2014	B-horizon	16	282402	5449391	Buck Lake
00-CAS- 2015	B-horizon	16	282378	5449378	Buck Lake
00-CAS- 2016	B-horizon	16	282358	5449369	Buck Lake
00-CAS- 2017	B-horizon	16	282345	5449355	Buck Lake
00-CAS- 2018	B-horizon	16	282324	5449339	Buck Lake
00-CAS- 2019	B-horizon	16	282305	5449326	Buck Lake
00-CAS- 2020	B-horizon	16	282566	5449397	Buck Lake
00-CAS- 2021	B-horizon	16	282661	5449534	Buck Lake
00-CAS- 2022	B-horizon	16	282680	5449546	Buck Lake
00-CAS- 2023	B-horizon	16	282699	5449546	Buck Lake
00-CAS- 2024	B-horizon	16	282717	5449559	Buck Lake
00-CAS- 2025	B-horizon	16	282733	5449561	Buck Lake
00-CAS- 2026	B-horizon	16	282750	5449579	Buck Lake
00-CAS- 2027	B-horizon	16	282767	5449597	Buck Lake
00-CAS- 2029	B-horizon	16	282805	5449643	Buck Lake
00-CAS- 2030	B-horizon	16	282553	5449380	Buck Lake
00-CAS- 2031	B-horizon	16	282529	5449370	Buck Lake
00-CAS- 2032	B-horizon	16	282507	5449358	Buck Lake
00-CAS- 2051	B-horizon	16	315581	5444083	Legris Lake
00-CAS- 2052	B-horizon	16	315591	5444097	Legris Lake
00-CAS- 2053	B-horizon	16	315604	5444130	Legris Lake
00-CAS- 2054	B-horizon	16	315630	5444180	Legris Lake
00-CAS- 2055	B-horizon	16	315641	5444162	Legris Lake
00-CAS- 2056	B-horizon	16	315652	5444184	Legris Lake
00-CAS- 2057	B-horizon	16	315667	5444196	Legris Lake

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 2058	B-horizon	16	315682	5444214	Legris Lake
00-CAS- 2059	B-horizon	16	315560	5444077	Legris Lake
00-CAS- 2060	B-horizon	16	315541	5444060	Legris Lake
00-CAS- 2061	B-horizon	16	315527	5444051	Legris Lake
00-CAS- 2062	B-horizon	16	315503	5444024	Legris Lake
00-CAS- 2063	B-horizon	16	315488	5444023	Legris Lake
00-CAS- 2066	B-horizon	16	315579	5444060	Legris Lake
00-CAS- 2067	B-horizon	16	315564	5444036	Legris Lake
00-CAS- 2068	B-horizon	16	315548	5444016	Legris Lake
00-CAS- 2069	B-horizon	16	315537	5443997	Legris Lake
00-CAS- 2070	B-horizon	16	315520	5443989	Legris Lake
00-CAS- 2071	B-horizon	16	315515	5443989	Legris Lake
00-CAS- 2072	B-horizon	16	315493	5443953	Legris Lake
00-CAS- 2073	B-horizon	16	315475	5443932	Legris Lake
00-CAS- 2074	B-horizon	16	315457	5443909	Legris Lake
00-CAS- 2075	B-horizon	16	315441	5443902	Legris Lake
00-CAS- 2076	B-horizon	16	315648	5444144	Legris Lake
00-CAS- 2077	B-horizon	16	315595	5444102	Legris Lake
00-CAS- 2078	B-horizon	16	315623	5444105	Legris Lake
00-CAS- 2079	B-horizon	16	315630	5444127	Legris Lake
00-CAS- 2080	B-horizon	16	315662	5444182	Legris Lake
00-CAS- 2081	B-horizon	16	315672	5444178	Legris Lake
00-CAS- 2082	B-horizon	16	315689	5444205	Legris Lake
00-CAS- 2101	B-horizon	16	356324	5432596	Wolf Mountain
00-CAS- 2102	B-horizon	16	356326	5432584	Wolf Mountain
00-CAS- 2103	B-horizon	16	356328	5432565	Wolf Mountain
00-CAS- 2104	B-horizon	16	356329	5432546	Wolf Mountain
00-CAS- 2105	B-horizon	16	356329	5432517	Wolf Mountain
00-CAS- 2106	B-horizon	16	356508	5432495	Wolf Mountain
00-CAS- 2107	B-horizon	16	356514	5432413	Wolf Mountain
00-CAS- 2108	B-horizon	16	356520	5432563	Wolf Mountain
00-CAS- 2109	B-horizon	16	356516	5432588	Wolf Mountain
00-CAS- 2110	B-horizon	16	356524	5432383	Wolf Mountain
00-CAS- 2111	B-horizon	16	356528	5432360	Wolf Mountain
00-CAS- 2112	B-horizon	16	356528	5432360	Wolf Mountain
00-CAS- 2151	B-horizon	15	696322	5389431	Haines Township
00-CAS- 2152	B-horizon	15	696354	5389473	Haines Township
00-CAS- 2153	B-horizon	15	696322	5389303	Haines Township
00-CAS- 2155	B-horizon	15	696265	5389247	Haines Township
00-CAS- 2156	B-horizon	15	696256	5389211	Haines Township
00-CAS- 2157	B-horizon	15	696241	5389206	Haines Township
00-CAS- 2158	B-horizon	15	696229	5389180	Haines Township
00-CAS- 2159	B-horizon	15	696215	5389158	Haines Township
00-CAS- 2160	B-horizon	15	696084	5389583	Haines Township
00-CAS- 2161	B-horizon	15	696067	5389564	Haines Township
00-CAS- 2162	B-horizon	15	696055	5389570	Haines Township
00-CAS- 2163	B-horizon	15	696018	5389551	Haines Township
00-CAS- 2164	B-horizon	15	696199	5389543	Haines Township
00-CAS- 2165	B-horizon	15	696199	5389543	Haines Township
00-CAS- 2166	B-horizon	15	696186	5389535	Haines Township
00-CAS- 2167	B-horizon	15	696158	5389517	Haines Township
00-CAS- 2168	B-horizon	15	696138	5389508	Haines Township

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 2169	B-horizon	15	696122	5389497	Haines Township
00-CAS- 2170	B-horizon	15	696098	5389501	Haines Township
00-CAS- 2172	B-horizon	15	696211	5389433	Haines Township
00-CAS- 2173	B-horizon	15	696197	5389427	Haines Township
00-CAS- 2175	B-horizon	15	696163	5389378	Haines Township
00-CAS- 2176	B-horizon	15	696151	5389360	Haines Township
00-CAS- 2177	B-horizon	15	696138	5389341	Haines Township
00-CAS- 2178	B-horizon	15	696125	5389331	Haines Township
00-CAS- 2179	B-horizon	15	696095	5389320	Haines Township
00-CAS- 2180	B-horizon	15	696079	5389305	Haines Township
00-CAS- 2181	B-horizon	15	696077	5389286	Haines Township
00-CAS- 2182	B-horizon	15	696056	5389262	Haines Township
00-CAS- 2183	B-horizon	15	696056	5389242	Haines Township
00-CAS- 2184	B-horizon	15	696032	5389226	Haines Township
00-CAS- 2185	B-horizon	15	696023	5389210	Haines Township
00-CAS- 2187	B-horizon	15	695977	5389178	Haines Township
00-CAS- 2189	B-horizon	15	696230	5389457	Haines Township
00-CAS- 2190	B-horizon	15	696230	5389457	Haines Township
00-CAS- 2191	B-horizon	15	696244	5389476	Haines Township
00-CAS- 2192	B-horizon	15	696280	5389504	Haines Township
00-CAS- 2193	B-horizon	15	696285	5389519	Haines Township
00-CAS- 2194	B-horizon	15	696298	5389552	Haines Township
00-CAS- 2197	B-horizon	15	696352	5389591	Haines Township
00-CAS- 2198	B-horizon	15	696202	5389148	Haines Township
00-CAS- 2199	B-horizon	15	696176	5389126	Haines Township
00-CAS- 2200	B-horizon	15	696162	5389117	Haines Township
00-CAS- 2201	B-horizon	15	696137	5389075	Haines Township
00-CAS- 2202	B-horizon	15	696126	5389065	Haines Township
00-CAS- 2203	B-horizon	15	696116	5389056	Haines Township
00-CAS- 2204	B-horizon	15	696092	5389028	Haines Township
00-CAS- 2251	B-horizon	15	615303	5394069	Nym Lake
00-CAS- 2252	B-horizon	15	615298	5394042	Nym Lake
00-CAS- 2253	B-horizon	15	615288	5394026	Nym Lake
00-CAS- 2254	B-horizon	15	615317	5394093	Nym Lake
00-CAS- 2255	B-horizon	15	615379	5394214	Nym Lake
00-CAS- 2256	B-horizon	15	615379	5394214	Nym Lake
00-CAS- 2257	B-horizon	15	614686	5394522	Nym Lake
00-CAS- 2258	B-horizon	15	614802	5394388	Nym Lake
00-CAS- 2259	B-horizon	15	614855	5394469	Nym Lake
00-CAS- 2260	B-horizon	15	614877	5394319	Nym Lake
00-CAS- 2261	B-horizon	15	614902	5394264	Nym Lake
00-CAS- 2262	B-horizon	15	615056	5394192	Nym Lake
00-CAS- 2263	B-horizon	15	615142	5394184	Nym Lake
00-CAS- 2264	B-horizon	15	615522	5394050	Nym Lake
00-CAS- 2265	B-horizon	15	615495	5394260	Nym Lake
00-CAS- 2266	B-horizon	15	615371	5394351	Nym Lake
00-CAS- 2267	B-horizon	15	615638	5394543	Nym Lake
00-CAS- 2268	B-horizon	15	615641	5394834	Nym Lake
00-CAS- 2269	B-horizon	15	615197	5394302	Nym Lake
00-CAS- 2270	B-horizon	15	615077	5394474	Nym Lake
00-CAS- 2271	B-horizon	15	614756	5394389	Nym Lake
00-CAS- 2272	B-horizon	15	614756	5394389	Nym Lake

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 2273	B-horizon	15	615561	5394431	Nym Lake
00-CAS- 2274	B-horizon	15	615130	5394873	Nym Lake
00-CAS- 2275	B-horizon	15	615452	5394965	Nym Lake
00-CAS- 2276	B-horizon	15	616186	5395007	Nym Lake
00-CAS- 2302	B-horizon	16	310333	5450015	Baker Zone - LDI
00-CAS- 2304	B-horizon	16	310268	5449973	Baker Zone - LDI
00-CAS- 2305	B-horizon	16	310253	5449962	Baker Zone - LDI
00-CAS- 2306	B-horizon	16	310236	5449953	Baker Zone - LDI
00-CAS- 2307	B-horizon	16	310218	5449941	Baker Zone - LDI
00-CAS- 2308	B-horizon	16	310152	5449903	Baker Zone - LDI
00-CAS- 2309	B-horizon	16	310135	5449892	Baker Zone - LDI
00-CAS- 2310	B-horizon	16	310110	5449875	Baker Zone - LDI
00-CAS- 2311	B-horizon	16	310094	5449866	Baker Zone - LDI
00-CAS- 2312	B-horizon	16	310094	5449866	Baker Zone - LDI
00-CAS- 2313	B-horizon	16	310074	5449852	Baker Zone - LDI
00-CAS- 2314	B-horizon	16	310053	5449839	Baker Zone - LDI
00-CAS- 2315	B-horizon	16	310409	5450079	Baker Zone - LDI
00-CAS- 2316	B-horizon	16	310440	5450031	Baker Zone - LDI
00-CAS- 2317	B-horizon	16	310427	5450001	Baker Zone - LDI
00-CAS- 2320	B-horizon	16	310343	5449960	Baker Zone - LDI
00-CAS- 2321	B-horizon	16	310324	5449944	Baker Zone - LDI
00-CAS- 2322	B-horizon	16	310297	5449931	Baker Zone - LDI
00-CAS- 2323	B-horizon	16	310285	5449906	Baker Zone - LDI
00-CAS- 2324	B-horizon	16	310263	5449901	Baker Zone - LDI
00-CAS- 2325	B-horizon	16	310240	5449885	Baker Zone - LDI
00-CAS- 2326	B-horizon	16	310213	5449877	Baker Zone - LDI
00-CAS- 2327	B-horizon	16	310187	5449870	Baker Zone - LDI
00-CAS- 2330	B-horizon	16	310124	5449833	Baker Zone - LDI
00-CAS- 2334	B-horizon	16	310327	5450035	Baker Zone - LDI
00-CAS- 2335	B-horizon	16	310369	5450016	Baker Zone - LDI
00-CAS- 2337	B-horizon	16	310347	5449990	Baker Zone - LDI
00-CAS- 2341	B-horizon	16	310279	5449949	Baker Zone - LDI
00-CAS- 2342	B-horizon	16	310265	5449937	Baker Zone - LDI
00-CAS- 2344	B-horizon	16	310526	5450185	Baker Zone - LDI
00-CAS- 2345	B-horizon	16	310470	5450231	Baker Zone - LDI
00-CAS- 2346	B-horizon	16	310484	5450252	Baker Zone - LDI
00-CAS- 2347	B-horizon	16	310510	5450166	Baker Zone - LDI
00-CAS- 2349	B-horizon	16	310546	5450192	Baker Zone - LDI
00-CAS- 2350	B-horizon	16	310562	5450202	Baker Zone - LDI
00-CAS- 2351	B-horizon	16	310577	5450111	Baker Zone - LDI
00-CAS- 2352	B-horizon	16	310548	5450104	Baker Zone - LDI
00-CAS- 2354	B-horizon	16	308264	5449036	Powerhouse - LDI
00-CAS- 2355	B-horizon	16	308175	5449177	Powerhouse - LDI
00-CAS- 2356	B-horizon	16	308049	5448858	Powerhouse - LDI
00-CAS- 2357	B-horizon	16	308157	5448927	Powerhouse - LDI
00-CAS- 2358	B-horizon	16	307736	5448763	Powerhouse - LDI
00-CAS- 2359	B-horizon	16	307505	5448646	Powerhouse - LDI
00-CAS- 2360	B-horizon	16	307841	5449029	Powerhouse - LDI
00-CAS- 2361	B-horizon	16	307841	5449029	Powerhouse - LDI
00-CAS- 2362	B-horizon	16	307479	5448411	Powerhouse - LDI
00-CAS- 2363	B-horizon	16	307474	5448172	Powerhouse - LDI
00-CAS- 2364	B-horizon	16	307604	5447981	Powerhouse - LDI

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 2365	B-horizon	16	307755	5447755	Powerhouse - LDI
00-CAS- 2367	B-horizon	16	307259	5448607	Powerhouse - LDI
00-CAS- 2368	B-horizon	16	307104	5448508	Powerhouse - LDI
00-CAS- 2369	B-horizon	16	307301	5448360	Powerhouse - LDI
00-CAS- 2370	B-horizon	16	308822	5448992	Powerhouse - LDI
00-CAS- 2371	B-horizon	16	308733	5449129	Powerhouse - LDI
00-CAS- 2372	B-horizon	16	308445	5449128	Powerhouse - LDI
00-CAS- 2373	B-horizon	16	308535	5449224	Powerhouse - LDI
00-CAS- 2374	B-horizon	16	307873	5448787	Powerhouse - LDI
00-CAS- 2375	B-horizon	16	307654	5448397	Powerhouse - LDI
00-CAS- 3001	C-horizon till fine fraction	16	282624	5449507	Buck Lake
00-CAS- 3002	C-horizon till fine fraction	16	282638	5449515	Buck Lake
00-CAS- 3003	C-horizon till fine fraction	16	282635	5449526	Buck Lake
00-CAS- 3004	C-horizon till fine fraction	16	282598	5449499	Buck Lake
00-CAS- 3008	C-horizon till fine fraction	16	282516	5449447	Buck Lake
00-CAS- 3013	C-horizon till fine fraction	16	282427	5449406	Buck Lake
00-CAS- 3017	C-horizon till fine fraction	16	282345	5449355	Buck Lake
00-CAS- 3020	C-horizon till fine fraction	16	282566	5449397	Buck Lake
00-CAS- 3023	C-horizon till fine fraction	16	282699	5449546	Buck Lake
00-CAS- 3029	C-horizon till fine fraction	16	282805	5449643	Buck Lake
00-CAS- 3030	C-horizon till fine fraction	16	282553	5449380	Buck Lake
00-CAS- 3051	C-horizon till fine fraction	16	315581	5444083	Legris Lake
00-CAS- 3052	C-horizon till fine fraction	16	315591	5444097	Legris Lake
00-CAS- 3053	C-horizon till fine fraction	16	315604	5444130	Legris Lake
00-CAS- 3054	C-horizon till fine fraction	16	315630	5444180	Legris Lake
00-CAS- 3055	C-horizon till fine fraction	16	315641	5444162	Legris Lake
00-CAS- 3056	C-horizon till fine fraction	16	315652	5444184	Legris Lake
00-CAS- 3057	C-horizon till fine fraction	16	315667	5444196	Legris Lake
00-CAS- 3058	C-horizon till fine fraction	16	315682	5444214	Legris Lake
00-CAS- 3059	C-horizon till fine fraction	16	315560	5444077	Legris Lake
00-CAS- 3060	C-horizon till fine fraction	16	315541	5444060	Legris Lake
00-CAS- 3061	C-horizon till fine fraction	16	315527	5444051	Legris Lake
00-CAS- 3063	C-horizon till fine fraction	16	315488	5444023	Legris Lake
00-CAS- 3066	C-horizon till fine fraction	16	315579	5444060	Legris Lake
00-CAS- 3067	C-horizon till fine fraction	16	315564	5444036	Legris Lake
00-CAS- 3068	C-horizon till fine fraction	16	315548	5444016	Legris Lake
00-CAS- 3069	C-horizon till fine fraction	16	315537	5443997	Legris Lake
00-CAS- 3070	C-horizon till fine fraction	16	315520	5443989	Legris Lake
00-CAS- 3071	C-horizon till fine fraction	16	315515	5443989	Legris Lake
00-CAS- 3073	C-horizon till fine fraction	16	315475	5443932	Legris Lake
00-CAS- 3074	C-horizon till fine fraction	16	315457	5443909	Legris Lake
00-CAS- 3076	C-horizon till fine fraction	16	315648	5444144	Legris Lake
00-CAS- 3077	C-horizon till fine fraction	16	315595	5444102	Legris Lake
00-CAS- 3078	C-horizon till fine fraction	16	315623	5444105	Legris Lake
00-CAS- 3079	C-horizon till fine fraction	16	315630	5444127	Legris Lake
00-CAS- 3080	C-horizon till fine fraction	16	315662	5444182	Legris Lake
00-CAS- 3081	C-horizon till fine fraction	16	315672	5444178	Legris Lake
00-CAS- 3082	C-horizon till fine fraction	16	315689	5444205	Legris Lake
00-CAS- 3101	C-horizon till fine fraction	16	356324	5432596	Wolf Mountain
00-CAS- 3102	C-horizon till fine fraction	16	356326	5432584	Wolf Mountain
00-CAS- 3103	C-horizon till fine fraction	16	356328	5432565	Wolf Mountain
00-CAS- 3104	C-horizon till fine fraction	16	356329	5432546	Wolf Mountain

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 3106	C-horizon till fine fraction	16	356508	5432495	Wolf Mountain
00-CAS- 3107	C-horizon till fine fraction	16	356514	5432413	Wolf Mountain
00-CAS- 3151	C-horizon till fine fraction	15	696322	5389431	Haines Township
00-CAS- 3152	C-horizon till fine fraction	15	696354	5389473	Haines Township
00-CAS- 3153	C-horizon till fine fraction	15	696322	5389303	Haines Township
00-CAS- 3161	C-horizon till fine fraction	15	696067	5389564	Haines Township
00-CAS- 3162	C-horizon till fine fraction	15	696055	5389570	Haines Township
00-CAS- 3163	C-horizon till fine fraction	15	696018	5389551	Haines Township
00-CAS- 3164	C-horizon till fine fraction	15	696199	5389543	Haines Township
00-CAS- 3165	C-horizon till fine fraction	15	696199	5389543	Haines Township
00-CAS- 3166	C-horizon till fine fraction	15	696186	5389535	Haines Township
00-CAS- 3168	C-horizon till fine fraction	15	696138	5389508	Haines Township
00-CAS- 3169	C-horizon till fine fraction	15	696122	5389497	Haines Township
00-CAS- 3170	C-horizon till fine fraction	15	696098	5389501	Haines Township
00-CAS- 3172	C-horizon till fine fraction	15	696211	5389433	Haines Township
00-CAS- 3175	C-horizon till fine fraction	15	696163	5389378	Haines Township
00-CAS- 3176	C-horizon till fine fraction	15	696151	5389360	Haines Township
00-CAS- 3177	C-horizon till fine fraction	15	696138	5389341	Haines Township
00-CAS- 3178	C-horizon till fine fraction	15	696125	5389331	Haines Township
00-CAS- 3181	C-horizon till fine fraction	15	696077	5389286	Haines Township
00-CAS- 3182	C-horizon till fine fraction	15	696056	5389262	Haines Township
00-CAS- 3183	C-horizon till fine fraction	15	696056	5389242	Haines Township
00-CAS- 3184	C-horizon till fine fraction	15	696032	5389226	Haines Township
00-CAS- 3185	C-horizon till fine fraction	15	696023	5389210	Haines Township
00-CAS- 3189	C-horizon till fine fraction	15	696230	5389457	Haines Township
00-CAS- 3190	C-horizon till fine fraction	15	696230	5389457	Haines Township
00-CAS- 3191	C-horizon till fine fraction	15	696244	5389476	Haines Township
00-CAS- 3192	C-horizon till fine fraction	15	696280	5389504	Haines Township
00-CAS- 3193	C-horizon till fine fraction	15	696285	5389519	Haines Township
00-CAS- 3194	C-horizon till fine fraction	15	696298	5389552	Haines Township
00-CAS- 3197	C-horizon till fine fraction	15	696352	5389591	Haines Township
00-CAS- 3198	C-horizon till fine fraction	15	696202	5389148	Haines Township
00-CAS- 3200	C-horizon till fine fraction	15	696162	5389117	Haines Township
00-CAS- 3202	C-horizon till fine fraction	15	696126	5389065	Haines Township
00-CAS- 3203	C-horizon till fine fraction	15	696116	5389056	Haines Township
00-CAS- 3251	C-horizon till fine fraction	15	615303	5394069	Nym Lake
00-CAS- 3252	C-horizon till fine fraction	15	615298	5394042	Nym Lake
00-CAS- 3253	C-horizon till fine fraction	15	615288	5394026	Nym Lake
00-CAS- 3255	C-horizon till fine fraction	15	615379	5394214	Nym Lake
00-CAS- 3256	C-horizon till fine fraction	15	615379	5394214	Nym Lake
00-CAS- 3258	C-horizon till fine fraction	15	614802	5394388	Nym Lake
00-CAS- 3259	C-horizon till fine fraction	15	614855	5394469	Nym Lake
00-CAS- 3260	C-horizon till fine fraction	15	614877	5394319	Nym Lake
00-CAS- 3261	C-horizon till fine fraction	15	614902	5394264	Nym Lake
00-CAS- 3262	C-horizon till fine fraction	15	615056	5394192	Nym Lake
00-CAS- 3263	C-horizon till fine fraction	15	615142	5394184	Nym Lake
00-CAS- 3264	C-horizon till fine fraction	15	615522	5394050	Nym Lake
00-CAS- 3265	C-horizon till fine fraction	15	615495	5394260	Nym Lake
00-CAS- 3266	C-horizon till fine fraction	15	615371	5394351	Nym Lake
00-CAS- 3267	C-horizon till fine fraction	15	615638	5394543	Nym Lake
00-CAS- 3268	C-horizon till fine fraction	15	615641	5394834	Nym Lake
00-CAS- 3269	C-horizon till fine fraction	15	615197	5394302	Nym Lake

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 3270	C-horizon till fine fraction	15	615077	5394474	Nym Lake
00-CAS- 3271	C-horizon till fine fraction	15	614756	5394389	Nym Lake
00-CAS- 3272	C-horizon till fine fraction	15	614756	5394389	Nym Lake
00-CAS- 3273	C-horizon till fine fraction	15	615561	5394431	Nym Lake
00-CAS- 3274	C-horizon till fine fraction	15	615130	5394873	Nym Lake
00-CAS- 3275	C-horizon till fine fraction	15	615452	5394965	Nym Lake
00-CAS- 3276	C-horizon till fine fraction	15	616186	5395007	Nym Lake
00-CAS- 3301	C-horizon till fine fraction	16	310351	5450029	Baker Zone - LDI
00-CAS- 3302	C-horizon till fine fraction	16	310333	5450015	Baker Zone - LDI
00-CAS- 3303	C-horizon till fine fraction	16	310292	5449995	Baker Zone - LDI
00-CAS- 3304	C-horizon till fine fraction	16	310268	5449973	Baker Zone - LDI
00-CAS- 3305	C-horizon till fine fraction	16	310253	5449962	Baker Zone - LDI
00-CAS- 3306	C-horizon till fine fraction	16	310236	5449953	Baker Zone - LDI
00-CAS- 3307	C-horizon till fine fraction	16	310218	5449941	Baker Zone - LDI
00-CAS- 3308	C-horizon till fine fraction	16	310152	5449903	Baker Zone - LDI
00-CAS- 3310	C-horizon till fine fraction	16	310110	5449875	Baker Zone - LDI
00-CAS- 3311	C-horizon till fine fraction	16	310094	5449866	Baker Zone - LDI
00-CAS- 3312	C-horizon till fine fraction	16	310094	5449866	Baker Zone - LDI
00-CAS- 3313	C-horizon till fine fraction	16	310074	5449852	Baker Zone - LDI
00-CAS- 3315	C-horizon till fine fraction	16	310409	5450079	Baker Zone - LDI
00-CAS- 3316	C-horizon till fine fraction	16	310440	5450031	Baker Zone - LDI
00-CAS- 3318	C-horizon till fine fraction	16	310390	5449979	Baker Zone - LDI
00-CAS- 3319	C-horizon till fine fraction	16	310358	5449969	Baker Zone - LDI
00-CAS- 3320	C-horizon till fine fraction	16	310343	5449960	Baker Zone - LDI
00-CAS- 3322	C-horizon till fine fraction	16	310297	5449931	Baker Zone - LDI
00-CAS- 3324	C-horizon till fine fraction	16	310263	5449901	Baker Zone - LDI
00-CAS- 3325	C-horizon till fine fraction	16	310240	5449885	Baker Zone - LDI
00-CAS- 3326	C-horizon till fine fraction	16	310213	5449877	Baker Zone - LDI
00-CAS- 3327	C-horizon till fine fraction	16	310187	5449870	Baker Zone - LDI
00-CAS- 3328	C-horizon till fine fraction	16	310167	5449862	Baker Zone - LDI
00-CAS- 3329	C-horizon till fine fraction	16	310142	5449853	Baker Zone - LDI
00-CAS- 3331	C-horizon till fine fraction	16	310103	5449819	Baker Zone - LDI
00-CAS- 3332	C-horizon till fine fraction	16	310085	5449814	Baker Zone - LDI
00-CAS- 3333	C-horizon till fine fraction	16	310345	5450064	Baker Zone - LDI
00-CAS- 3334	C-horizon till fine fraction	16	310327	5450035	Baker Zone - LDI
00-CAS- 3335	C-horizon till fine fraction	16	310369	5450016	Baker Zone - LDI
00-CAS- 3336	C-horizon till fine fraction	16	310359	5450006	Baker Zone - LDI
00-CAS- 3337	C-horizon till fine fraction	16	310347	5449990	Baker Zone - LDI
00-CAS- 3338	C-horizon till fine fraction	16	310321	5449969	Baker Zone - LDI
00-CAS- 3339	C-horizon till fine fraction	16	310311	5449981	Baker Zone - LDI
00-CAS- 3340	C-horizon till fine fraction	16	310299	5449966	Baker Zone - LDI
00-CAS- 3341	C-horizon till fine fraction	16	310279	5449949	Baker Zone - LDI
00-CAS- 3342	C-horizon till fine fraction	16	310265	5449937	Baker Zone - LDI
00-CAS- 3343	C-horizon till fine fraction	16	310284	5449990	Baker Zone - LDI
00-CAS- 3344	C-horizon till fine fraction	16	310526	5450185	Baker Zone - LDI
00-CAS- 3345	C-horizon till fine fraction	16	310470	5450231	Baker Zone - LDI
00-CAS- 3347	C-horizon till fine fraction	16	310510	5450166	Baker Zone - LDI
00-CAS- 3348	C-horizon till fine fraction	16	310490	5450156	Baker Zone - LDI
00-CAS- 3349	C-horizon till fine fraction	16	310546	5450192	Baker Zone - LDI
00-CAS- 3350	C-horizon till fine fraction	16	310562	5450202	Baker Zone - LDI
00-CAS- 3351	C-horizon till fine fraction	16	310577	5450111	Baker Zone - LDI
00-CAS- 3352	C-horizon till fine fraction	16	310548	5450104	Baker Zone - LDI

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 3353	C-horizon till fine fraction	16	310526	5450088	Baker Zone - LDI
00-CAS- 3354	C-horizon till fine fraction	16	308264	5449036	Powerhouse - LDI
00-CAS- 3355	C-horizon till fine fraction	16	308175	5449177	Powerhouse - LDI
00-CAS- 3356	C-horizon till fine fraction	16	308049	5448858	Powerhouse - LDI
00-CAS- 3357	C-horizon till fine fraction	16	308157	5448927	Powerhouse - LDI
00-CAS- 3358	C-horizon till fine fraction	16	307736	5448763	Powerhouse - LDI
00-CAS- 3359	C-horizon till fine fraction	16	307505	5448646	Powerhouse - LDI
00-CAS- 3360	C-horizon till fine fraction	16	307841	5449029	Powerhouse - LDI
00-CAS- 3361	C-horizon till fine fraction	16	307841	5449029	Powerhouse - LDI
00-CAS- 3362	C-horizon till fine fraction	16	307479	5448411	Powerhouse - LDI
00-CAS- 3363	C-horizon till fine fraction	16	307474	5448172	Powerhouse - LDI
00-CAS- 3364	C-horizon till fine fraction	16	307604	5447981	Powerhouse - LDI
00-CAS- 3365	C-horizon till fine fraction	16	307755	5447755	Powerhouse - LDI
00-CAS- 3366	C-horizon till fine fraction	16	308021	5448614	Powerhouse - LDI
00-CAS- 3367	C-horizon till fine fraction	16	307259	5448607	Powerhouse - LDI
00-CAS- 3368	C-horizon till fine fraction	16	307104	5448508	Powerhouse - LDI
00-CAS- 3369	C-horizon till fine fraction	16	307301	5448360	Powerhouse - LDI
00-CAS- 3370	C-horizon till fine fraction	16	308822	5448992	Powerhouse - LDI
00-CAS- 3371	C-horizon till fine fraction	16	308733	5449129	Powerhouse - LDI
00-CAS- 3372	C-horizon till fine fraction	16	308445	5449128	Powerhouse - LDI
00-CAS- 3373	C-horizon till fine fraction	16	308535	5449224	Powerhouse - LDI
00-CAS- 3374	C-horizon till fine fraction	16	307873	5448787	Powerhouse - LDI
00-CAS- 3375	C-horizon till fine fraction	16	307654	5448397	Powerhouse - LDI
00-CAS- 3451	C-horizon till fine fraction	16	301387	5432225	New Millenium
00-CAS- 4001	C-horizon till HMC	16	282624	5449507	Buck Lake
00-CAS- 4007	C-horizon till HMC	16	282539	5449450	Buck Lake
00-CAS- 4013	C-horizon till HMC	16	282427	5449406	Buck Lake
00-CAS- 4017	C-horizon till HMC	16	282345	5449355	Buck Lake
00-CAS- 4020	C-horizon till HMC	16	282566	5449397	Buck Lake
00-CAS- 4023	C-horizon till HMC	16	282699	5449546	Buck Lake
00-CAS- 4029	C-horizon till HMC	16	282805	5449643	Buck Lake
00-CAS- 4054	C-horizon till HMC	16	315630	5444180	Legris Lake
00-CAS- 4058	C-horizon till HMC	16	315682	5444214	Legris Lake
00-CAS- 4059	C-horizon till HMC	16	315560	5444077	Legris Lake
00-CAS- 4063	C-horizon till HMC	16	315488	5444023	Legris Lake
00-CAS- 4066	C-horizon till HMC	16	315579	5444060	Legris Lake
00-CAS- 4071	C-horizon till HMC	16	315515	5443989	Legris Lake
00-CAS- 4074	C-horizon till HMC	16	315457	5443909	Legris Lake
00-CAS- 4076	C-horizon till HMC	16	315648	5444144	Legris Lake
00-CAS- 4102	C-horizon till HMC	16	356326	5432584	Wolf Mountain
00-CAS- 4107	C-horizon till HMC	16	356514	5432413	Wolf Mountain
00-CAS- 4151	C-horizon till HMC	15	696322	5389431	Haines Township
00-CAS- 4161	C-horizon till HMC	15	696067	5389564	Haines Township
00-CAS- 4164	C-horizon till HMC	15	696199	5389543	Haines Township
00-CAS- 4165	C-horizon till HMC	15	696199	5389543	Haines Township
00-CAS- 4169	C-horizon till HMC	15	696122	5389497	Haines Township
00-CAS- 4175	C-horizon till HMC	15	696163	5389378	Haines Township
00-CAS- 4181	C-horizon till HMC	15	696077	5389286	Haines Township
00-CAS- 4185	C-horizon till HMC	15	696023	5389210	Haines Township
00-CAS- 4192	C-horizon till HMC	15	696280	5389504	Haines Township
00-CAS- 4198	C-horizon till HMC	15	696202	5389148	Haines Township
00-CAS- 4203	C-horizon till HMC	15	696116	5389056	Haines Township

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 4251	C-horizon till HMC	15	615303	5394069	Nym Lake
00-CAS- 4255	C-horizon till HMC	15	615379	5394214	Nym Lake
00-CAS- 4256	C-horizon till HMC	15	615379	5394214	Nym Lake
00-CAS- 4258	C-horizon till HMC	15	614802	5394388	Nym Lake
00-CAS- 4259	C-horizon till HMC	15	614855	5394469	Nym Lake
00-CAS- 4260	C-horizon till HMC	15	614877	5394319	Nym Lake
00-CAS- 4261	C-horizon till HMC	15	614902	5394264	Nym Lake
00-CAS- 4262	C-horizon till HMC	15	615056	5394192	Nym Lake
00-CAS- 4263	C-horizon till HMC	15	615142	5394184	Nym Lake
00-CAS- 4264	C-horizon till HMC	15	615522	5394050	Nym Lake
00-CAS- 4265	C-horizon till HMC	15	615495	5394260	Nym Lake
00-CAS- 4266	C-horizon till HMC	15	615371	5394351	Nym Lake
00-CAS- 4267	C-horizon till HMC	15	615638	5394543	Nym Lake
00-CAS- 4268	C-horizon till HMC	15	615641	5394834	Nym Lake
00-CAS- 4269	C-horizon till HMC	15	615197	5394302	Nym Lake
00-CAS- 4270	C-horizon till HMC	15	615077	5394474	Nym Lake
00-CAS- 4274	C-horizon till HMC	15	615130	5394873	Nym Lake
00-CAS- 4275	C-horizon till HMC	15	615452	5394965	Nym Lake
00-CAS- 4276	C-horizon till HMC	15	616186	5395007	Nym Lake
00-CAS- 4301	C-horizon till HMC	16	310351	5450029	Baker Zone - LDI
00-CAS- 4302	C-horizon till HMC	16	310333	5450015	Baker Zone - LDI
00-CAS- 4305	C-horizon till HMC	16	310253	5449962	Baker Zone - LDI
00-CAS- 4308	C-horizon till HMC	16	310152	5449903	Baker Zone - LDI
00-CAS- 4313	C-horizon till HMC	16	310074	5449852	Baker Zone - LDI
00-CAS- 4316	C-horizon till HMC	16	310440	5450031	Baker Zone - LDI
00-CAS- 4320	C-horizon till HMC	16	310343	5449960	Baker Zone - LDI
00-CAS- 4324	C-horizon till HMC	16	310263	5449901	Baker Zone - LDI
00-CAS- 4328	C-horizon till HMC	16	310167	5449862	Baker Zone - LDI
00-CAS- 4344	C-horizon till HMC	16	310526	5450185	Baker Zone - LDI
00-CAS- 4351	C-horizon till HMC	16	310577	5450111	Baker Zone - LDI
00-CAS- 4354	C-horizon till HMC	16	308264	5449036	Powerhouse - LDI
00-CAS- 4355	C-horizon till HMC	16	308175	5449177	Powerhouse - LDI
00-CAS- 4356	C-horizon till HMC	16	308049	5448858	Powerhouse - LDI
00-CAS- 4357	C-horizon till HMC	16	308157	5448927	Powerhouse - LDI
00-CAS- 4358	C-horizon till HMC	16	307736	5448763	Powerhouse - LDI
00-CAS- 4359	C-horizon till HMC	16	307505	5448646	Powerhouse - LDI
00-CAS- 4360	C-horizon till HMC	16	307841	5449029	Powerhouse - LDI
00-CAS- 4361	C-horizon till HMC	16	307841	5449029	Powerhouse - LDI
00-CAS- 4362	C-horizon till HMC	16	307479	5448411	Powerhouse - LDI
00-CAS- 4363	C-horizon till HMC	16	307474	5448172	Powerhouse - LDI
00-CAS- 4364	C-horizon till HMC	16	307604	5447981	Powerhouse - LDI
00-CAS- 4365	C-horizon till HMC	16	307755	5447755	Powerhouse - LDI
00-CAS- 4366	C-horizon till HMC	16	308021	5448614	Powerhouse - LDI
00-CAS- 4367	C-horizon till HMC	16	307259	5448607	Powerhouse - LDI
00-CAS- 4368	C-horizon till HMC	16	307104	5448508	Powerhouse - LDI
00-CAS- 4369	C-horizon till HMC	16	307301	5448360	Powerhouse - LDI
00-CAS- 4370	C-horizon till HMC	16	308822	5448992	Powerhouse - LDI
00-CAS- 4371	C-horizon till HMC	16	308733	5449129	Powerhouse - LDI
00-CAS- 4372	C-horizon till HMC	16	308445	5449128	Powerhouse - LDI
00-CAS- 4373	C-horizon till HMC	16	308535	5449224	Powerhouse - LDI
00-CAS- 4374	C-horizon till HMC	16	307873	5448787	Powerhouse - LDI
00-CAS- 4375	C-horizon till HMC	16	307654	5448397	Powerhouse - LDI

SAMPLE NUMBER	MEDIUM	ZONE	EASTING	NORTHING	PROPERTY
00-CAS- 5113	Black Spruce Bark	16	356476	5432417	Wolf Mountain
00-CAS- 5114	Black Spruce Bark	16	356476	5432417	Wolf Mountain
00-CAS- 5115	Black Spruce Bark	16	356485	5432438	Wolf Mountain
00-CAS- 5116	Black Spruce Bark	16	356485	5432438	Wolf Mountain
00-CAS- 5117	Black Spruce Bark	16	356494	5432468	Wolf Mountain
00-CAS- 5118	Black Spruce Bark	16	356494	5432468	Wolf Mountain
00-CAS- 5119	Black Spruce Bark	16	356490	5432482	Wolf Mountain
00-CAS- 5120	Black Spruce Bark	16	356490	5432482	Wolf Mountain
00-CAS- 5121	Black Spruce Bark	16	356475	5432522	Wolf Mountain
00-CAS- 5122	Black Spruce Bark	16	356475	5432522	Wolf Mountain
00-CAS- 5123	Black Spruce Bark	16	356493	5432530	Wolf Mountain
00-CAS- 5124	Black Spruce Bark	16	356493	5432530	Wolf Mountain
00-CAS- 5151	Black Spruce Bark	15	696322	5389431	Haines Township
00-CAS- 5153	Black Spruce Bark	15	696322	5389303	Haines Township
00-CAS- 5154	Black Spruce Bark	15	696292	5389253	Haines Township
00-CAS- 5156	Black Spruce Bark	15	696256	5389211	Haines Township
00-CAS- 5160	Black Spruce Bark	15	696084	5389583	Haines Township
00-CAS- 5162	Black Spruce Bark	15	696055	5389570	Haines Township
00-CAS- 5401	Black Spruce Bark	15	566591	5385527	Samuel Lake
00-CAS- 5402	Black Spruce Bark	15	566585	5385518	Samuel Lake
00-CAS- 5403	Black Spruce Bark	15	566592	5385507	Samuel Lake
00-CAS- 5404	Black Spruce Bark	15	566607	5385532	Samuel Lake
00-CAS- 5405	Black Spruce Bark	15	566638	5385534	Samuel Lake
00-CAS- 5406	Black Spruce Bark	15	566688	5385537	Samuel Lake

APPENDIX B

Quality Control Data

Summary of Abbreviations:

ICP-MS	inductively coupled plasma-mass spectrometry
ICP-AES	inductively coupled plasma-atomic emission spectroscopy
ICP-AES-FA	inductively coupled plasma-atomic emission spectroscopy-fire assay
MDL	method detection limit
Accuracy	(mean-certified value) / certified value x 100

TILL-1 and TILL-4 are Canmet certified reference materials
LKSD-1 and LKSD-4 are Canmet certified reference materials

Element	Analytical Method	Units	MDL	LKSD-1 Reference Standard (n=4)					LKSD-4 Reference Standard (n=4)				
				Certified Value	Measured			Accuracy	Certified Value	Measured			Accuracy
					Mean	Min	Max			Mean	Min	Max	
Ag	ICP-MS	ppm	0.02	0.6	0.5725	0.55	0.59	-4.58	0.2	0.245	0.23	0.26	22.50
Al	ICP-AES	ppm	30	41300	4633.25	3950	5331	-88.78	31200	13317.75	12286	14412	-57.31
Au	ICP-AES-FA	ppb	0.9	5	4.92	3.52	5.68	-1.60	2	3.105	<0.9	5.33	55.25
Ba	ICP-MS	ppm	1	430	97.7875	94.33	101.91	-77.26	330	143.4325	136	149.5	-56.54
Be	ICP-MS	ppm	0.1	1.1	0.1425	0.11	0.17	-87.05	1	0.4625	0.41	0.57	-53.75
Ca	ICP-AES	ppm	15	77200	52078	49955	58252	-32.54	12900	10290	9047	10846	-20.23
Cd	ICP-MS	ppm	0.05	1.2	1.598	1.482	1.665	33.17	1.9	2.06725	2.034	2.094	8.80
Ce	ICP-MS	ppm	0.03	27	18.01275	16.938	19.837	-33.29	48	36.703	33.472	38.862	-23.54
Co	ICP-MS	ppm	0.05	9	8.5025	7.34	9.15	-5.53	11	9.6575	8.12	10.86	-12.20
Cr	ICP-MS	ppm	1	12	11.77	10.46	13	-1.92	21	18.4825	16.64	19.9	-11.99
Cs	ICP-MS	ppm	0.01	1.5	0.523	0.481	0.562	-65.13	1.7	1.0955	1.01	1.172	-35.56
Cu	ICP-MS	ppm	0.5	44	41.11	37.51	44.93	-6.57	30	29.3625	27.2	32.15	-2.13
Dy	ICP-MS	ppm	0.05	3.4	1.82575	1.637	1.956	-46.30	3.7	2.99275	2.813	3.116	-19.11
Er	ICP-MS	ppm	0.01	-	1.02425	0.916	1.073	-	-	1.748	1.571	1.826	-
Eu	ICP-MS	ppm	0.05	0.9	0.51125	0.455	0.571	-43.19	1.1	0.96175	0.882	1.01	-12.57
Fe	ICP-AES	ppm	5	18000	20552.25	19377	21868	14.18	27000	28648.5	27819	30010	6.11
Ga	ICP-MS	ppm	0.05	-	2.0125	1.92	2.2	-	-	4.2775	3.82	4.69	-
Gd	ICP-MS	ppm	0.05	-	3.18225	2.786	3.746	-	-	5.625	5.028	5.924	-
Hf	ICP-MS	ppm	0.05	3.6	0.04	<0.05	0.06	-98.89	2.8	<0.05	<0.05	<0.05	-
Hg	ICP-MS	ppm	0.05	0.11	0.135	0.1	0.17	22.73	0.11	0.19	0.17	0.22	72.73
Ho	ICP-MS	ppm	0.01	-	0.39075	0.318	0.42	-	-	0.6525	0.528	0.698	-
K	ICP-AES	ppm	100	9100	482	396	568	-94.70	6600	1024	864	1166	-84.48
La	ICP-MS	ppm	0.05	16	11.26625	10.465	12.116	-29.59	26	21.47425	20.792	22.138	-17.41
Li	ICP-MS	ppm	0.5	7	4.655	4.28	5.26	-33.50	12	9.165	7.81	11.13	-23.63
Lu	ICP-MS	ppm	0.005	0.4	0.1575	0.125	0.175	-60.63	0.5	0.28275	0.223	0.308	-43.45
Mg	ICP-AES	ppm	20	10300	6154.5	5752	6591	-40.25	5400	3809.75	3603	4085	-29.45
Mn	ICP-AES	ppm	1	460	457	426	488	-0.65	430	452.75	441	474	5.29
Mo	ICP-MS	ppm	0.1	12	10.1225	9.93	10.5	-15.65	2	1.78	1.74	1.83	-11.00
Na	ICP-AES	ppm	10	14800	305.25	252	370	-97.94	5200	210.5	170	248	-95.95
Nb	ICP-MS	ppm	0.05	7	0.85	0.65	1.11	-87.86	9	1.135	0.87	1.31	-87.39
Nd	ICP-MS	ppm	0.08	16	12.595	11.83	13.71	-21.28	25	22.215	21.92	22.95	-11.14

Element	Analytical Method	Units	MDL	LKSD-1 Reference Standard (n=4)					LKSD-4 Reference Standard (n=4)				
				Certified Value	Measured			Accuracy	Certified Value	Measured			Accuracy
					Mean	Min	Max			Mean	Min	Max	
Ni	ICP-MS	ppm	0.5	11	15.8525	14.8	17.05	44.11	32	31.2675	30.06	33.1	-2.29
P	ICP-AES	ppm	50	900	700.5	663	732	-22.17	1300	1310.5	1234	1385	0.81
Pb	ICP-MS	ppm	0.05	84	73.9	67.42	84.64	-12.02	93	83.765	78.05	98.52	-9.93
Pd	ICP-AES-FA	ppb	0.9	-	1.1825	<0.9	2.91	-	-	1.5075	<0.9	3.01	-
Pr	ICP-MS	ppm	0.05	-	3.15575	2.614	3.432	-	-	5.967	5.225	6.325	-
Pt	ICP-AES-FA	ppb	0.5	-	0.805	<0.5	2.18	-	-	1.1725	<0.5	2.7	-
Rb	ICP-MS	ppm	0.05	24	3.9325	3.28	4.46	-83.61	28	10.9425	9.02	12.32	-60.92
S	ICP-AES	ppm	30	15700	15953	15350	16273	1.61	9900	9953.25	9642	10377	0.54
Sb	ICP-MS	ppm	0.05	1.2	0.6425	0.6	0.68	-46.46	1.5	1.2075	1.19	1.25	-19.50
Sc	ICP-MS	ppm	0.1	9	2.695	2.26	3.31	-70.06	7	3.965	3.41	4.54	-43.36
Sm	ICP-MS	ppm	0.05	4	2.52575	2.328	2.846	-36.86	5	4.239	4.123	4.431	-15.22
Sn	ICP-MS	ppm	0.5	16	3.07	3	3.14	-80.81	5	3.025	2.61	3.27	-39.50
Sr	ICP-MS	ppm	0.1	250	70.175	63.2	74.8	-71.93	110	42.5	36.3	46.5	-61.36
Ta	ICP-MS	ppm	0.05	0.3	<0.05	<0.05	<0.05	-	0.4	<0.05	<0.05	<0.05	-
Tb	ICP-MS	ppm	0.05	0.6	0.396	0.313	0.449	-34.00	1.2	0.6545	0.512	0.724	-45.46
Th	ICP-MS	ppm	0.05	2.2	1.4975	1.23	1.66	-31.93	5.1	1.655	0.7	2.29	-67.55
Ti	ICP-AES	ppm	3	3010	363.75	287	445	-87.92	2270	457.75	409	509	-79.83
Tl	ICP-MS	ppm	0.05	-	0.2275	0.21	0.24	-	-	0.4425	0.41	0.46	-
Tm	ICP-MS	ppm	0.005	-	0.1555	0.121	0.181	-	-	0.26325	0.209	0.288	-
U	ICP-MS	ppm	0.05	9.7	9.39975	8.446	10.053	-3.10	31	30.45125	30.35	30.557	-1.77
V	ICP-MS	ppm	10	27	7.5	5	15	-72.22	32	13.5	5	19	-57.81
W	ICP-MS	ppm	0.05	<4	0.6325	0.56	0.73	-	<4	0.24625	0.025	0.5	-
Y	ICP-MS	ppm	0.05	19	10.8075	9.54	11.93	-43.12	23	17.0125	15.68	18.25	-26.03
Yb	ICP-MS	ppm	0.05	2	0.94325	0.802	1.088	-52.84	2	1.68575	1.502	1.757	-15.71
Zn	ICP-MS	ppm	1	337	324.62	313.82	337.71	-3.67	189	192.425	179.37	204.81	1.81
Zr	ICP-MS	ppm	0.1	134	1.7825	1.62	1.92	-98.67	105	1.3675	1.12	1.64	-98.70

Element	Analyical Method	MDL	Units	TILL-1 Reference Standard (n=4)					TILL-4 Reference Standard (n=4)				
				Certified Value	Measured			Accuracy	Certified Value	Measured			Accuracy
					Mean	Min	Max			Mean	Min	Max	
Ag	ICP-MS	0.02	ppm	0.2	0.15	<0.02	0.21	-25.00	<0.2	0.2275	0.15	0.39	-
Al	ICP-AES	30	ppm	18050	19509.5	18425	20647	8.09	20400	21464.25	20449	22245	5.22
Au	ICP-AES-FA	0.9	ppb	13	9.66	7.51	13.78	-25.69	5	5.825	4.58	7.22	16.50
Ba	ICP-MS	1	ppm	84	82.76	79.37	87.54	-1.48	71	72.735	71.18	74.42	2.44
Be	ICP-MS	0.1	ppm	-	0.465	0.18	0.68	-	-	1.25	1.04	1.6	-
Ca	ICP-AES	15	ppm	3817	4028.75	3887	4247	5.55	1565	1661.75	1587	1796	6.18
Cd	ICP-MS	0.05	ppm	<0.2	0.24075	0.216	0.259	-	<0.2	0.3365	0.314	0.354	-
Ce	ICP-MS	0.03	ppm	-	55.094	51.926	60.143	-	-	62.456	58.987	65.722	-
Co	ICP-MS	0.05	ppm	12	13.115	12.42	14.04	9.29	6	6.3125	5.94	6.54	5.21
Cr	ICP-MS	1	ppm	30	29.5625	27.16	34.01	-1.46	26	24.76	22.24	27.64	-4.77
Cs	ICP-MS	0.01	ppm	-	0.66575	0.629	0.695	-	-	8.9115	8.547	9.092	-
Cu	ICP-MS	0.5	ppm	48	44.29	38.52	48.13	-7.73	254	244.09	230.54	252.36	-3.90
Dy	ICP-MS	0.05	ppm	-	2.90525	2.848	3.003	-	-	2.47875	2.277	2.668	-
Er	ICP-MS	0.01	ppm	-	1.4465	1.396	1.541	-	-	0.9975	0.981	1.005	-
Eu	ICP-MS	0.05	ppm	-	0.80875	0.761	0.912	-	-	0.60425	0.561	0.624	-
Fe	ICP-AES	5	ppm	37900	39988.75	38759	41679	5.51	40500	41951	40176	43028	3.58
Ga	ICP-MS	0.05	ppm	-	4.28	3.96	4.59	-	-	4.115	3.91	4.28	-
Gd	ICP-MS	0.05	ppm	-	3.91775	3.694	4.162	-	-	3.91825	3.732	4.081	-
Hf	ICP-MS	0.05	ppm	-	<0.05	<0.05	<0.05	-	-	0.0875	0.07	0.1	-
Hg	ICP-MS	0.05	ppm	-	0.1075	0.08	0.14	-	-	0.07	0.06	0.08	-
Ho	ICP-MS	0.01	ppm	-	0.557	0.542	0.577	-	-	0.41525	0.4	0.436	-
K	ICP-AES	100	ppm	-	612	580	665	-	-	2926	2825	3020	-
La	ICP-MS	0.05	ppm	-	20.065	19.203	22.22	-	-	33.07525	31.909	34.301	-
Li	ICP-MS	0.5	ppm	-	10.2875	9.36	11.34	-	-	21.26	19.46	24.19	-
Lu	ICP-MS	0.01	ppm	-	0.16775	0.162	0.171	-	-	0.10575	0.083	0.121	-
Mg	ICP-AES	20	ppm	6990	6450.5	6123	6771	-7.72	5570	5734	5463	5908	2.94
Mn	ICP-AES	2	ppm	1060	1247.75	1189	1332	17.71	280	324.25	304	336	15.80
Mo	ICP-MS	0.1	ppm	<2	0.6625	0.31	0.88	-	14	15.47	14.73	16.44	10.50
Na	ICP-AES	10	ppm	575	392.5	370	423	-31.74	485	394	372	418	-18.76
Nb	ICP-MS	0.05	ppm	-	0.9975	0.12	1.39	-	-	2.215	1.75	2.51	-
Nd	ICP-MS	0.08	ppm	-	21.3225	19.59	23.16	-	-	26.2	24.41	27.27	-

Element	Analyical Method	MDL	Units	TILL-1 Reference Standard (n=4)					TILL-4 Reference Standard (n=4)				
				Certified Value	Measured			Accuracy	Certified Value	Measured			Accuracy
					Mean	Min	Max			Mean	Min	Max	
Ni	ICP-MS	0.5	ppm	18	17.215	12.79	20.27	-4.36	15	15.9825	14.49	18.26	6.55
P	ICP-AES	50	ppm	834	956.75	883	1024	14.72	1260	910	820	950	-27.78
Pb	ICP-MS	0.05	ppm	12	14.385	13.14	15.36	19.88	36	39.7875	38.35	42.13	10.52
Pd	ICP-AES-FA	0.9	ppb	-	0.45	0.45	0.45	-	-	0.45	0.45	0.45	-
Pr	ICP-MS	0.05	ppm	-	5.2855	4.901	5.785	-	-	7.23125	6.88	7.696	-
Pt	ICP-AES-FA	0.5	ppb	-	0.25	0.25	0.25	-	-	0.25	0.25	0.25	-
Rb	ICP-MS	0.05	ppm	-	6.905	6.54	7.16	-	-	41.39	40.43	42.5	-
S	ICP-AES	30	ppm	-	242.75	217	266	-	-	790	732	829	-
Sb	ICP-MS	0.05	ppm	-	6.2225	5.31	6.68	-	-	0.73	0.66	0.83	-
Sc	ICP-MS	0.1	ppm	-	5.5775	5.23	6.13	-	-	5.11	4.69	5.76	-
Sm	ICP-MS	0.05	ppm	-	4.26525	3.943	4.829	-	-	4.9955	4.749	5.435	-
Sn	ICP-MS	0.5	ppm	-	1.025	0.9	1.24	-	-	6.1375	5.89	6.34	-
Sr	ICP-MS	0.1	ppm	-	12.525	11.7	12.8	-	-	10.925	10	12.4	-
Ta	ICP-MS	0.05	ppm	-	0.025	0.025	0.025	-	-	0.025	0.025	0.025	-
Tb	ICP-MS	0.05	ppm	-	0.5575	0.529	0.608	-	-	0.53875	0.517	0.56	-
Th	ICP-MS	0.05	ppm	-	3.6475	3.28	4.02	-	-	13.72	13.02	14.41	-
Ti	ICP-AES	3	ppm	-	917	822	996	-	-	1220.25	1137	1290	-
Tl	ICP-MS	0.05	ppm	-	0.1375	0.13	0.15	-	-	0.4575	0.45	0.47	-
Tm	ICP-MS	0.01	ppm	-	0.20175	0.188	0.219	-	-	0.12525	0.108	0.135	-
U	ICP-MS	0.05	ppm	-	0.925	0.851	0.998	-	-	2.81625	2.665	2.917	-
V	ICP-MS	10	ppm	48	57.9725	49.01	74.01	20.78	38	37.4625	26.68	48.53	-1.41
W	ICP-MS	0.05	ppm	-	0.075	<0.05	0.17	-	-	146.8575	124.71	169.79	-
Y	ICP-MS	0.05	ppm	-	14.24	13.18	15.51	-	-	10.2025	9.78	10.68	-
Yb	ICP-MS	0.05	ppm	-	1.321	1.236	1.453	-	-	0.835	0.794	0.876	-
Zn	ICP-MS	1	ppm	70	72.1525	67.72	76.03	3.08	63	65.245	60.08	71.98	3.56
Zr	ICP-MS	0.1	ppm	-	1.0475	0.63	1.57	-	-	4.51	3.88	5.39	-

APPENDIX C

Geochemical Data for Bark, Humus, B-horizon (<63 µm) and C-horizon Till (<63 µm) Fine Fraction Samples

Summary of Abbreviations:

ICP-AES-FA	inductively coupled plasma – atomic emission spectroscopy – fire assay
ICP-AES	inductively coupled plasma – atomic emission spectroscopy
ICP-MS	inductively coupled plasma – mass spectrometry
N.M.	not measured

Note: Results reported as less than detection limit are represented as half of the detection limit in this spreadsheet.

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 1001	1.5	0.45	0.6	4751	232	1.5	6557	1	2.5	7	6	5673	876
00-CAS- 1004	1.41	0.45	0.25	2832	105	1.5	5622	1	2.5	2	6	3374	830
00-CAS- 1005	1.79	0.45	0.25	3462	179	1.5	4406	1	2.5	2	7	4084	675
00-CAS- 1006	1.41	0.45	0.25	3383	112	1.5	4895	1	2.5	6	6	4550	700
00-CAS- 1007	1.72	0.45	0.25	3633	224	1.5	6111	1	2.5	7	6	5980	653
00-CAS- 1008	2.92	0.45	0.25	3648	102	1.5	6113	1	2.5	8	9	5308	851
00-CAS- 1009	1.72	0.45	0.25	5811	278	1.5	9598	1	10	8	7	9271	783
00-CAS- 1010	1.98	1.19	0.25	7686	175	1.5	11764	3	13	12	24	10622	875
00-CAS- 1011	1.73	0.93	0.51	7055	134	1.5	7611	2	2.5	8	17	11192	566
00-CAS- 1012	1.01	0.45	0.25	5308	266	1.5	8549	2	6	7	10	7113	940
00-CAS- 1013	1.99	5.2	4.42	4234	119	1.5	2762	1	2.5	76	22	4763	541
00-CAS- 1014	1.46	1.39	0.53	9112	97	1.5	3431	3	5	13	9	12859	643
00-CAS- 1015	2.1	1.65	0.58	12772	78	1.5	3345	3	6	19	25	15960	684
00-CAS- 1016	1.99	0.45	0.25	9889	141	1.5	5300	2	9	11	16	11746	682
00-CAS- 1017	2.42	0.45	0.51	6758	248	1.5	10182	2	13	8	11	8749	963
00-CAS- 1018	1.52	0.45	0.25	7659	231	1.5	11295	2	12	11	9	9753	932
00-CAS- 1019	2.56	0.45	0.62	6819	59	1.5	3797	1	2.5	10	8	9573	770
00-CAS- 1020	2.62	0.45	0.53	8077	209	1.5	8124	2	10	13	9	10568	1151
00-CAS- 1022	2.35	1.21	0.96	6104	204	1.5	7173	2	5	10	10	10190	1092
00-CAS- 1024	3.55	3.41	3.03	7406	233	1.5	8796	4	10	18	11	15243	1069
00-CAS- 1025	2.34	0.45	0.25	4890	185	1.5	7896	1	2.5	7	8	6336	899
00-CAS- 1026	2.78	0.95	0.25	8067	113	1.5	3844	1	2.5	8	13	8776	934
00-CAS- 1027	1.83	1.37	1.22	5691	120	1.5	2407	1	2.5	13	10	7594	615
00-CAS- 1028	2.62	2.5	2.2	5323	83	1.5	2912	3	2.5	20	10	16684	613
00-CAS- 1029	2.76	3.08	2.28	6898	163	1.5	4632	2	2.5	11	12	8967	735
00-CAS- 1030	1.54	2.41	2.16	3630	157	1.5	8567	1	2.5	5	7	5443	590
00-CAS- 1031	3.35	2.8	2.25	5362	381	1.5	14722	2	14	9	8	7157	1135
00-CAS- 1032	3.39	2.72	2.5	3061	205	1.5	14125	1	2.5	2	8	4126	851
00-CAS- 1051	3.53	3.8	1.59	3717	192	1.5	19660	2	14	8	15	7207	943
00-CAS- 1052	2.64	3.47	1.65	3321	137	1.5	14084	1	7	6	14	5258	1022
00-CAS- 1053	1.97	3.23	2.96	6024	358	1.5	18024	4	14	15	15	12668	892
00-CAS- 1054	1.83	4.01	2.26	5249	129	1.5	9629	3	9	12	13	10234	708
00-CAS- 1055	2.75	3.05	1.4	3741	59	1.5	8368	1	5	7	10	5541	583
00-CAS- 1056	3.77	2.53	1.76	4450	247	1.5	14012	2	9	8	16	6195	979
00-CAS- 1057	3.97	4.02	2.16	3154	92	1.5	12537	1	7	6	10	4348	702

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 1001	1.5	746	47	4	35	10	863	1394	0.5	41	76	12	17.5	2	34
00-CAS- 1004	1.5	696	76	4	30	2.5	630	1570	0.5	26	48	7	17.5	1	42
00-CAS- 1005	1.5	804	41	4	31	2.5	731	1510	0.5	32	60	9	17.5	1	36
00-CAS- 1006	1.5	914	92	4	54	6	691	1104	0.5	25	101	12	17.5	1	43
00-CAS- 1007	1.5	847	257	4	42	8	742	1149	0.5	30	156	20	17.5	1	49
00-CAS- 1008	1.5	812	124	4	51	9	884	1276	0.5	29	140	19	17.5	1	32
00-CAS- 1009	1.5	1660	2038	4	60	10	1051	1281	0.5	41	174	28	17.5	1	68
00-CAS- 1010	1.5	2155	1471	4	141	14	1335	1418	1	43	192	23	17.5	3	82
00-CAS- 1011	1.5	1196	201	4	62	14	1202	1598	0.5	36	88	15	17.5	3	34
00-CAS- 1012	1.5	1256	1512	4	59	11	1036	1470	0.5	38	134	21	17.5	1	91
00-CAS- 1013	1.5	819	213	4	57	20	658	660	0.5	16	93	11	17.5	1	51
00-CAS- 1014	1.5	1875	117	4	97	13	852	990	1	19	287	40	17.5	1	49
00-CAS- 1015	1.5	2543	96	4	102	28	1288	1261	0.5	19	100	30	17.5	3	44
00-CAS- 1016	1.5	1592	337	4	56	21	1477	1660	0.5	29	66	18	17.5	3	61
00-CAS- 1017	1.5	1693	3398	4	63	10	1030	1382	1	45	125	23	17.5	2	52
00-CAS- 1018	1.5	2018	3095	4	86	10	890	1189	1	41	179	24	17.5	1	61
00-CAS- 1019	1.5	1346	114	4	90	9	744	1203	1	21	202	38	17.5	1	39
00-CAS- 1020	1.5	1608	2374	4	71	10	1170	1415	1	33	140	28	17.5	1	103
00-CAS- 1022	1.5	1428	722	4	75	10	995	1176	1	31	190	36	17.5	1	70
00-CAS- 1024	4	2322	1779	4	217	17	933	1023	1	33	458	72	17.5	1	87
00-CAS- 1025	1.5	1319	961	4	46	8	1060	1440	0.5	36	94	16	17.5	1	84
00-CAS- 1026	1.5	967	118	4	60	8	1304	1460	0.5	28	54	17	17.5	1	61
00-CAS- 1027	1.5	1136	87	4	77	13	883	1219	0.5	24	164	19	17.5	1	43
00-CAS- 1028	1.5	835	257	4	98	10	723	741	0.5	16	147	50	17.5	1	40
00-CAS- 1029	1.5	1558	664	4	74	12	1075	1233	0.5	28	179	26	17.5	1	70
00-CAS- 1030	1.5	914	1152	4	54	6	871	1364	0.5	33	110	20	17.5	1	59
00-CAS- 1031	1.5	1423	5220	4	44	8	1319	1676	1	46	70	17	17.5	1	127
00-CAS- 1032	1.5	1248	729	4	23	5	1268	1841	0.5	59	45	9	17.5	1	76
00-CAS- 1051	1.5	2576	2141	4	99	11	1144	2260	0.5	58	150	29	17.5	1	30
00-CAS- 1052	1.5	1947	455	4	49	10	1052	2183	0.5	45	90	15	17.5	1	20
00-CAS- 1053	1.5	2871	2406	4	165	16	701	1439	1	62	363	51	17.5	2	73
00-CAS- 1054	1.5	2226	567	4	113	14	788	1490	1	34	318	42	17.5	1	56
00-CAS- 1055	1.5	1232	172	4	54	11	704	1727	0.5	23	128	19	17.5	1	32
00-CAS- 1056	1.5	1356	2002	4	64	13	967	1886	0.5	40	115	17	17.5	1	55
00-CAS- 1057	1.5	1464	450	4	38	7	933	1843	0.5	37	79	11	17.5	1	29

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 1001	0.1	3747.49	N.M.	214.89	0.14	4445.78	0.753	7.518	2.16	5.55	0.978	6.26
00-CAS- 1004	0.05	2256.32	N.M.	100.32	0.05	3840.24	0.651	4.174	1.15	2.96	1.035	6.03
00-CAS- 1005	0.12	2755.76	N.M.	169.34	0.12	2961.59	0.828	5.379	1.45	2.61	0.745	7.52
00-CAS- 1006	0.16	2898.08	N.M.	118.14	0.05	3803.39	0.58	5.168	1.55	5.14	0.941	7.11
00-CAS- 1007	0.03	2992.94	N.M.	215.44	0.05	4359.51	0.766	7.33	1.72	6.58	1.202	6.83
00-CAS- 1008	0.05	3218.53	N.M.	99.21	0.05	4686.1	0.376	6.826	1.54	7.67	0.669	9.86
00-CAS- 1009	0.08	5056.24	N.M.	265.9	0.14	7323.64	0.552	8.345	6.83	7.2	1.187	7.34
00-CAS- 1010	0.16	6897.92	N.M.	175.59	0.18	9148.06	0.721	15.801	11.28	10.82	1.022	24.31
00-CAS- 1011	0.18	6370.35	N.M.	137.06	0.23	6229.16	0.439	12.672	4.4	7.62	0.646	17.96
00-CAS- 1012	0.1	4880.91	N.M.	253.84	0.19	7088.39	0.816	8.386	4.96	6.59	0.813	10.87
00-CAS- 1013	0.1	3796.69	N.M.	121.47	0.13	2323.14	0.677	14.806	1.68	67.55	0.655	23.25
00-CAS- 1014	0.11	9366.08	N.M.	95.65	0.15	2907.93	0.365	11.451	4.09	10.58	0.624	8.55
00-CAS- 1015	0.06	13229.8	N.M.	77.64	0.27	2861.71	0.277	14.607	5.34	16.34	0.956	21.65
00-CAS- 1016	0.13	10550.6	N.M.	137.57	0.28	4747.17	0.538	15.089	7.5	9.46	1.377	14.8
00-CAS- 1017	0.21	9234.54	N.M.	241.64	0.18	11505.2	0.796	13.364	7.77	9.4	1.318	11.24
00-CAS- 1018	0.1	10119.7	N.M.	217.14	0.14	12505.3	0.691	14.526	7.04	11.4	1.057	8.69
00-CAS- 1019	0.16	7874.09	N.M.	57.67	0.12	3558.79	0.429	9.143	2.95	9.13	0.869	7.62
00-CAS- 1020	0.07	10040.1	N.M.	192.7	0.15	8400.73	0.677	12.425	5.82	13.55	1.082	8.53
00-CAS- 1022	0.16	7422.01	N.M.	189.19	0.15	7302.44	0.571	9.895	3.72	10.7	1.465	9.43
00-CAS- 1024	0.12	7195.21	N.M.	221.05	0.11	6462.01	0.622	9.263	7.12	14.68	1.013	9.19
00-CAS- 1025	0.1	6251.57	N.M.	175.2	0.05	8241	0.745	6.534	2.76	7.64	0.917	8.05
00-CAS- 1026	0.09	10576	N.M.	121.5	0.12	4160.98	0.544	11.249	2.88	8.69	1.277	13.86
00-CAS- 1027	0.04	5321.78	N.M.	119.58	0.11	1749.32	0.47	6.874	3.3	9.8	0.821	9.33
00-CAS- 1028	0.01	4857.76	N.M.	86.23	0.05	2170.65	0.377	7.873	2.73	14.4	0.762	9.06
00-CAS- 1029	0.04	6410.26	N.M.	160.3	0.2	3306.34	0.531	7.295	3.16	8.54	1	10.33
00-CAS- 1030	0.07	3140.47	N.M.	150.65	0.05	5408.14	0.343	4.432	1.99	3.32	0.713	5.05
00-CAS- 1031	0.14	4773.41	N.M.	349.99	0.12	9336.56	0.906	7.31	6.41	5.6	1.143	6.03
00-CAS- 1032	0.12	3521.26	N.M.	192.33	0.05	12233.7	0.585	4.17	2.22	3.52	0.635	6.96
00-CAS- 1051	0.12	3368.13	N.M.	186.12	0.05	13331.6	0.598	4.198	9.97	5.98	0.835	12.13
00-CAS- 1052	0.15	2991.01	N.M.	136.19	0.05	9058.27	0.462	3.981	5.84	4.46	0.938	11.02
00-CAS- 1053	0.14	5760.62	N.M.	340.42	0.17	12884.6	0.938	7.868	11.04	12.53	1.576	12.08
00-CAS- 1054	0.07	5923.5	N.M.	127.17	0.13	8084.38	0.532	8.326	7.49	11.74	1.111	11.58
00-CAS- 1055	0.03	2881.11	N.M.	60.24	0.12	4657.04	0.554	4.515	4.62	4.48	0.667	8.29
00-CAS- 1056	0.1	4818.04	N.M.	234.41	0.13	11294.7	0.877	6.572	6.17	6.38	1.498	14.09
00-CAS- 1057	0.24	2565.81	N.M.	87.5	0.11	7359.32	0.483	4.005	5.95	4.61	0.644	8.21

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 1001	0.446	0.225	0.198	3800.32	1.46	1.287	0.05	0.44	0.091	4.505	1.23	0.037	546.55
00-CAS- 1004	0.211	0.126	0.093	2228.56	0.91	0.632	0.025	0.36	0.052	2.444	0.76	0.021	524.7
00-CAS- 1005	0.317	0.16	0.148	2761.67	1.09	0.838	0.025	0.44	0.056	3.195	0.84	0.023	571.75
00-CAS- 1006	0.258	0.122	0.119	3332.2	1.16	0.754	0.025	0.34	0.049	3.07	1.27	0.022	760.28
00-CAS- 1007	0.273	0.136	0.145	4393	1.77	1.072	0.025	0.39	0.062	4.068	1.13	0.028	682.66
00-CAS- 1008	0.249	0.118	0.122	3988.36	1.5	0.87	0.025	0.36	0.054	3.617	0.99	0.02	658.1
00-CAS- 1009	0.361	0.186	0.192	7096.96	2.5	1.14	0.025	0.32	0.069	4.711	2.73	0.032	1370.6
00-CAS- 1010	0.72	0.322	0.298	8421.96	3.17	2.16	0.025	0.34	0.154	10.151	2.5	0.052	1806.44
00-CAS- 1011	0.614	0.274	0.253	8947.95	1.87	1.813	0.025	0.4	0.119	6.815	1.44	0.031	989.34
00-CAS- 1012	0.438	0.214	0.205	5763.64	2.15	1.26	0.025	0.48	0.078	4.555	1.91	0.043	1107.4
00-CAS- 1013	0.479	0.16	0.205	3484.34	2.65	1.85	0.025	0.27	0.08	7.919	0.81	0.028	687.18
00-CAS- 1014	0.435	0.193	0.152	10769.9	4.02	1.256	0.025	0.21	0.081	6.559	3.69	0.031	1749.86
00-CAS- 1015	0.689	0.277	0.229	13418.4	3.85	1.605	0.025	0.25	0.138	8.313	4.53	0.041	2504.59
00-CAS- 1016	0.724	0.378	0.305	10130.3	2.63	1.761	0.025	0.42	0.15	8.348	2.6	0.053	1571.43
00-CAS- 1017	0.518	0.209	0.219	9555.26	2.99	1.217	0.025	0.48	0.097	6.524	2.91	0.041	1992.19
00-CAS- 1018	0.468	0.201	0.19	10177.2	3.24	1.256	0.025	0.24	0.083	6.673	3.42	0.035	2365.07
00-CAS- 1019	0.345	0.159	0.115	8457.49	2.64	0.988	0.025	0.25	0.074	4.942	2.68	0.026	1348.28
00-CAS- 1020	0.407	0.172	0.159	10330.3	3.15	1.154	0.025	0.36	0.083	5.775	3.2	0.035	1823.71
00-CAS- 1022	0.386	0.166	0.166	9674.09	2.84	0.982	0.025	0.35	0.073	5.029	2.51	0.03	1482.16
00-CAS- 1024	0.412	0.167	0.166	11124.4	3.49	1.102	0.025	0.25	0.074	5.385	4.34	0.031	1939.72
00-CAS- 1025	0.308	0.125	0.12	6307.98	1.76	0.696	0.025	0.35	0.055	3.329	1.99	0.018	1481.65
00-CAS- 1026	0.406	0.188	0.166	9312.39	2.73	1.127	0.025	0.46	0.087	5.866	1.82	0.027	1119.97
00-CAS- 1027	0.398	0.174	0.145	5347.14	2.02	0.893	0.025	0.36	0.072	4.263	2.02	0.026	896.33
00-CAS- 1028	0.334	0.149	0.146	11265.1	3.16	1.005	0.025	0.24	0.06	5.127	0.92	0.022	654.63
00-CAS- 1029	0.352	0.172	0.158	6285.85	2.54	0.937	0.025	0.31	0.073	4.887	3.14	0.023	1227.51
00-CAS- 1030	0.234	0.133	0.107	3623.65	1.46	0.606	0.025	0.27	0.051	3.012	1.32	0.021	652.83
00-CAS- 1031	0.351	0.163	0.191	4841.26	2.2	0.993	0.025	0.43	0.072	4.422	2.6	0.029	1046.53
00-CAS- 1032	0.163	0.084	0.094	3674.74	1.06	0.482	0.025	0.33	0.037	2.414	1.24	0.02	1181.71
00-CAS- 1051	0.251	0.107	0.102	4946.69	1.54	0.549	0.025	0.18	0.051	3.173	2.04	0.02	1970.15
00-CAS- 1052	0.208	0.109	0.103	3583.82	1.34	0.545	0.025	0.2	0.054	3.192	1.44	0.022	1490.32
00-CAS- 1053	0.451	0.199	0.198	9062.12	3.29	1.109	0.025	0.36	0.086	5.18	3.96	0.037	2398.05
00-CAS- 1054	0.334	0.166	0.137	8691.98	2.99	0.867	0.025	0.18	0.069	4.681	2.24	0.025	2163.77
00-CAS- 1055	0.27	0.122	0.089	3305.75	1.58	0.614	0.025	0.26	0.047	3.191	1.29	0.016	824.06
00-CAS- 1056	0.345	0.167	0.159	5126.19	1.71	0.806	0.025	0.66	0.069	3.743	2.39	0.037	1241.85
00-CAS- 1057	0.219	0.114	0.097	2657	1.24	0.518	0.025	0.24	0.047	2.942	1.3	0.012	966.19

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 1001	32.32	0.57	0.31	4	8.4	52.35	1.069	8.88	0.7	1.2	0.759	0.85	39.4
00-CAS- 1004	54.59	0.26	0.19	2.24	4.48	28	0.59	7.15	0.36	0.77	0.42	0.25	25.6
00-CAS- 1005	27.72	0.47	0.2	2.67	5.22	42.32	0.761	6.18	0.46	1	0.527	0.25	32.2
00-CAS- 1006	71.93	0.48	0.25	2.67	5.45	33.53	0.716	7.53	0.48	1	0.415	0.62	25.9
00-CAS- 1007	194.22	0.51	0.32	3.58	7.42	41.76	0.964	6.03	0.55	0.97	0.652	0.59	30.2
00-CAS- 1008	100.52	0.44	0.26	3.13	9.28	30.29	0.878	6.43	0.36	1.04	0.556	0.52	27.4
00-CAS- 1009	1594.65	0.73	0.39	3.79	9.03	54.61	1.052	10.92	0.5	1.08	0.714	0.89	41.6
00-CAS- 1010	1218.2	0.86	0.57	7.72	12.3	43.79	2.179	10.32	0.49	1.96	1.239	0.83	44.4
00-CAS- 1011	174.13	0.76	0.27	5.98	13.28	19.95	1.607	5.06	0.25	1.35	1.155	0.25	36.7
00-CAS- 1012	1280.25	0.62	0.37	3.79	11.18	42.7	1.048	9.15	0.6	1.08	0.786	0.76	39
00-CAS- 1013	179.06	0.52	0.19	6.72	19.78	35.25	1.874	4.68	0.24	0.83	1.024	0.75	16.3
00-CAS- 1014	105.11	0.68	0.63	4.98	11.03	32.77	1.504	6.19	0.28	1.16	0.869	0.92	18.5
00-CAS- 1015	89.98	0.76	0.39	6.84	22.84	16.44	1.871	6.83	0.31	0.58	1.059	0.58	19.6
00-CAS- 1016	312.37	0.65	0.36	6.5	16.99	29.2	1.957	9.8	0.28	0.52	1.157	0.25	29.2
00-CAS- 1017	3636.14	0.81	0.33	4.94	8.84	70.03	1.429	12.26	0.59	1.1	0.86	1.13	45.6
00-CAS- 1018	3228.69	0.87	0.46	5.22	8.64	57.2	1.547	12.93	0.42	1.3	0.911	1.13	39.5
00-CAS- 1019	112.7	0.59	0.44	4.01	7.21	34.94	1.15	9.75	0.34	1.11	0.719	0.85	21
00-CAS- 1020	2470.32	0.7	0.36	4.5	8.33	59.91	1.326	12.6	0.49	1.1	0.74	1.17	33.5
00-CAS- 1022	739.29	0.49	0.39	3.98	8.18	37.76	1.148	11.2	0.45	0.97	0.648	0.83	31.3
00-CAS- 1024	1310.94	0.57	0.4	4.28	13.72	179.69	1.236	14.2	2.86	1.45	0.715	0.78	34.4
00-CAS- 1025	1015.32	0.44	0.31	2.91	6.88	39.22	0.782	8.65	0.33	0.81	0.54	0.7	37.9
00-CAS- 1026	136.15	0.82	0.33	4.52	7.38	39.86	1.334	9.27	0.66	0.6	0.749	0.92	30.9
00-CAS- 1027	62.66	0.49	0.37	3.75	10.78	37.33	1.017	6.64	0.41	0.93	0.639	0.54	25.2
00-CAS- 1028	181.58	0.47	0.26	4.19	7.6	38.49	1.235	4.68	0.38	0.9	0.676	0.83	16.9
00-CAS- 1029	477.02	0.58	0.4	3.82	9.48	46.93	1.108	6.94	0.38	1.14	0.651	0.75	28.7
00-CAS- 1030	765.6	0.39	0.22	2.33	4.11	31.86	0.661	6.6	0.25	0.66	0.434	0.25	32.2
00-CAS- 1031	3183.08	0.59	0.24	3.4	5.97	79.72	1.037	16.08	0.41	1	0.555	0.84	47
00-CAS- 1032	686.64	0.46	0.2	1.9	4.15	44.28	0.523	8.97	0.33	0.63	0.341	0.62	60.4
00-CAS- 1051	1463.12	0.43	0.26	2.3	8.8	47.74	0.642	12.38	0.22	0.81	0.394	0.61	60.9
00-CAS- 1052	309.63	0.54	0.28	2.17	7.52	44.28	0.654	9.83	0.32	0.73	0.389	0.87	46.1
00-CAS- 1053	1695.36	0.6	0.58	4.16	12.77	37.65	1.213	22.4	0.33	1.52	0.771	0.68	65.7
00-CAS- 1054	499.02	0.65	0.62	3.76	11.53	38.24	1.097	10.76	0.33	1.15	0.634	0.8	35.3
00-CAS- 1055	103.46	0.57	0.29	2.56	8.2	36.98	0.757	6.12	0.31	0.87	0.5	0.68	23.2
00-CAS- 1056	1631.55	0.94	0.31	3.1	11.07	47.96	0.872	15.43	0.35	0.98	0.532	0.74	41
00-CAS- 1057	266.56	0.52	0.24	2.22	5.93	42.84	0.671	6.48	0.36	0.88	0.396	0.87	37.7

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 1001	0.025	0.107	0.83	5	0.13	0.029	0.319	5	0.15	2.3	0.216	34.19	1.45
00-CAS- 1004	0.025	0.059	0.57	5	0.08	0.022	0.157	5	0.14	1.25	0.115	43.16	1.19
00-CAS- 1005	0.025	0.068	0.66	5	0.12	0.018	0.239	5	0.08	1.52	0.111	36.94	1.08
00-CAS- 1006	0.025	0.058	0.6	5	0.08	0.017	0.206	5	0.07	1.16	0.114	46.64	1.11
00-CAS- 1007	0.025	0.08	0.38	5	0.18	0.024	0.273	5	0.08	1.52	0.134	49.72	0.52
00-CAS- 1008	0.025	0.067	0.26	5	0.14	0.019	0.214	5	0.07	1.2	0.097	33.15	0.32
00-CAS- 1009	0.025	0.096	0.22	5	0.17	0.027	0.308	5	0.09	1.67	0.149	69.71	0.17
00-CAS- 1010	0.025	0.2	0.25	5	0.16	0.05	0.457	5	0.07	3.82	0.323	86.17	0.22
00-CAS- 1011	0.025	0.147	0.06	5	0.1	0.036	0.52	5	0.13	2.78	0.214	34.45	0.11
00-CAS- 1012	0.025	0.112	0.27	5	0.1	0.03	0.268	5	0.06	2.17	0.17	95.86	0.12
00-CAS- 1013	0.025	0.131	0.025	5	0.09	0.028	0.405	5	0.15	1.95	0.149	55.04	0.05
00-CAS- 1014	0.025	0.116	0.33	5	0.09	0.026	0.35	20	0.1	1.98	0.145	47.83	0.58
00-CAS- 1015	0.025	0.166	0.025	5	0.12	0.048	0.525	12	0.29	3.12	0.241	41.39	0.3
00-CAS- 1016	0.025	0.173	0.025	5	0.15	0.045	0.419	5	0.25	3.59	0.262	61.35	0.18
00-CAS- 1017	0.025	0.131	0.34	5	0.42	0.034	0.392	22	0.1	2.23	0.168	50.18	0.2
00-CAS- 1018	0.025	0.112	0.6	5	0.14	0.032	0.353	21	0.12	2.06	0.185	56.92	0.36
00-CAS- 1019	0.025	0.095	0.64	5	0.08	0.02	0.292	23	0.09	1.62	0.129	38.11	0.94
00-CAS- 1020	0.025	0.106	0.33	5	0.27	0.025	0.347	21	0.08	1.73	0.148	97.64	0.2
00-CAS- 1022	0.025	0.091	0.38	5	0.2	0.026	0.283	28	0.07	1.7	0.145	68.07	0.34
00-CAS- 1024	0.025	0.098	0.82	5	0.21	0.029	0.324	43	0.08	1.92	0.158	91.77	0.58
00-CAS- 1025	0.025	0.065	0.25	5	0.15	0.02	0.239	14	0.08	1.29	0.117	83.25	0.28
00-CAS- 1026	0.025	0.105	0.025	5	0.14	0.031	0.455	17	0.31	1.94	0.183	68.2	0.12
00-CAS- 1027	0.025	0.095	0.22	5	0.08	0.028	0.226	5	0.08	1.8	0.149	44.45	0.43
00-CAS- 1028	0.025	0.088	0.09	5	0.1	0.019	0.303	18	0.06	1.52	0.136	40.8	0.19
00-CAS- 1029	0.025	0.088	0.18	5	0.12	0.025	0.344	5	0.07	1.78	0.156	73.32	0.3
00-CAS- 1030	0.025	0.053	0.2	5	0.13	0.016	0.197	5	0.18	1.12	0.105	58.92	0.14
00-CAS- 1031	0.025	0.089	0.61	5	0.39	0.025	0.303	5	0.09	1.74	0.148	128.98	0.24
00-CAS- 1032	0.025	0.025	0.24	5	0.18	0.014	0.183	5	0.07	0.96	0.075	78.18	0.53
00-CAS- 1051	0.025	0.054	0.56	5	0.08	0.02	0.172	5	0.07	1.22	0.106	31.26	0.81
00-CAS- 1052	0.025	0.053	0.49	5	0.08	0.015	0.199	5	0.1	1.14	0.082	20.04	1.05
00-CAS- 1053	0.025	0.109	0.71	5	0.14	0.033	0.278	28	0.1	2.33	0.187	77.94	0.99
00-CAS- 1054	0.025	0.085	0.71	5	0.08	0.017	0.25	30	0.09	1.61	0.131	59.36	0.78
00-CAS- 1055	0.025	0.067	0.5	5	0.07	0.02	0.215	5	0.08	1.28	0.121	34.14	0.92
00-CAS- 1056	0.025	0.084	0.82	5	0.17	0.028	0.242	5	0.06	1.74	0.147	56.65	1.3
00-CAS- 1057	0.025	0.059	0.39	5	0.1	0.017	0.213	5	0.08	1.13	0.083	29.38	1.03

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 1058	3.11	6.21	2.17	4988	154	1.5	15768	2	14	7	15	7102	1130
00-CAS- 1059	1.56	2.42	1.26	3636	120	1.5	12287	2	8	7	14	6060	728
00-CAS- 1060	3.64	2.3	1.22	3508	55	1.5	9541	1	5	6	9	5738	540
00-CAS- 1061	4.03	5.04	2.02	2326	61	1.5	10967	1	2.5	4	10	3574	629
00-CAS- 1062	3.79	4.21	2.32	4059	28	1.5	6292	1	2.5	7	8	6865	686
00-CAS- 1063	2.47	3.34	3.18	5732	101	1.5	6486	3	6	12	12	11247	1265
00-CAS- 1064	2.13	1.96	1.1	2732	111	1.5	4780	1	2.5	6	11	3423	920
00-CAS- 1066	2.54	1.96	1.81	2333	132	1.5	13965	1	6	5	10	3633	911
00-CAS- 1067	2.86	6.41	3.01	7172	206	1.5	15695	3	17	14	18	12494	979
00-CAS- 1068	4.21	4.65	3.51	4294	145	1.5	17666	1	12	9	18	6280	907
00-CAS- 1069	2.12	4.33	2.7	5999	149	1.5	13831	3	16	12	16	10843	957
00-CAS- 1070	2.65	4.53	2.02	5180	122	1.5	10978	1	9	11	16	6536	1169
00-CAS- 1071	3.14	4.8	2.85	5840	113	1.5	9057	3	8	17	13	13544	938
00-CAS- 1072	3.46	3.82	3.5	3371	110	1.5	10306	1	7	13	12	7848	762
00-CAS- 1073	2.17	4.85	2.85	2342	99	1.5	15430	1	7	6	11	3829	961
00-CAS- 1074	3.58	2.16	2.03	3944	263	1.5	18900	2	15	6	15	5609	1644
00-CAS- 1075	2.82	6.42	2.44	4356	100	1.5	7927	1	2.5	10	11	7302	987
00-CAS- 1076	3.81	4.57	2.68	3769	315	1.5	17564	3	21	9	17	6775	797
00-CAS- 1077	3.5	3.31	2.42	5993	188	1.5	12518	2	13	10	17	9302	828
00-CAS- 1078	4.67	3.45	2.81	3413	267	1.5	20054	1	12	7	17	5849	951
00-CAS- 1079	4.04	5.65	3.33	3164	202	1.5	13671	1	15	6	12	4638	1274
00-CAS- 1080	3.13	2.41	2.01	3421	156	1.5	13775	1	8	6	18	5801	794
00-CAS- 1081	3.74	2.93	2.33	3235	161	1.5	17031	1	10	6	14	5722	907
00-CAS- 1082	3.33	5.38	2.13	2624	139	1.5	17858	1	9	5	13	4483	878
00-CAS- 1108	2.95	8.47	21.68	5096	231	1.5	6075	5	15	97	10	24548	1190
00-CAS- 1109	2.08	3.38	3.78	3285	95	1.5	3855	3	9	50	7	15236	1046
00-CAS- 1110	1.41	3.38	4.05	2223	314	1.5	7965	1	8	17	8	5898	981
00-CAS- 1111	2.81	84.51	123	8158	138	1.5	2919	15	54	295	10	85835	711
00-CAS- 1151	2.99	2.43	1.93	3548	157	1.5	7506	1	2.5	8	12	5933	577
00-CAS- 1152	3.72	1.42	0.99	2382	107	1.5	13342	1	2.5	2	10	3646	327
00-CAS- 1153	1.76	2.01	2.81	3141	113	1.5	6913	1	2.5	6	8	4858	406
00-CAS- 1154	1.78	2.34	0.97	1502	18	1.5	13364	1	2.5	2	11	2372	429
00-CAS- 1155	1.29	2.04	0.76	1237	41	1.5	19295	1	2.5	6	14	1934	548
00-CAS- 1156	2.92	2.47	2.29	2553	85	1.5	8838	1	7	4	11	4135	642
00-CAS- 1157	2.32	2.55	2.43	3618	132	1.5	9387	1	2.5	7	10	6243	707

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 1058	1.5	2565	1431	4	84	11	1298	2030	1	46	105	21	17.5	1	54
00-CAS- 1059	1.5	1881	475	4	66	10	951	2193	0.5	41	112	20	17.5	1	33
00-CAS- 1060	1.5	1604	220	4	73	8	801	1873	0.5	31	139	20	17.5	1	17
00-CAS- 1061	1.5	1257	190	4	31	6	912	2281	0.5	33	68	10	17.5	1	16
00-CAS- 1062	1.5	1426	48	4	79	8	787	1879	0.5	17	166	22	17.5	1	23
00-CAS- 1063	1.5	1593	112	4	109	11	895	1352	1	21	275	45	41	1	51
00-CAS- 1064	1.5	612	60	4	65	5	794	1271	0.5	19	55	6	17.5	1	34
00-CAS- 1066	1.5	1739	1086	4	32	6	909	2158	0.5	44	53	9	17.5	1	26
00-CAS- 1067	5	3517	2169	4	164	16	1041	1550	1	51	305	47	17.5	2	28
00-CAS- 1068	1.5	2694	1122	4	111	12	1014	2057	0.5	53	122	18	17.5	1	19
00-CAS- 1069	1.5	2695	1317	4	122	14	1046	1921	1	45	272	42	17.5	3	26
00-CAS- 1070	1.5	1742	483	4	71	11	1222	2038	1	35	101	16	17.5	2	21
00-CAS- 1071	3	2383	424	4	114	13	981	1550	0.5	28	359	52	17.5	1	22
00-CAS- 1072	1.5	1763	423	4	73	10	913	1898	0.5	31	252	36	17.5	1	19
00-CAS- 1073	1.5	1832	419	4	40	7	1112	2174	0.5	50	82	10	17.5	1	27
00-CAS- 1074	1.5	1803	3198	4	41	12	1498	1847	0.5	53	87	13	17.5	2	45
00-CAS- 1075	1.5	1459	241	4	77	9	991	1686	0.5	27	166	24	17.5	1	27
00-CAS- 1076	1.5	2214	5026	4	62	13	1036	1908	0.5	62	144	20	17.5	1	24
00-CAS- 1077	1.5	2391	1242	4	124	12	910	1521	1	42	221	30	17.5	1	26
00-CAS- 1078	1.5	2544	2130	4	63	10	1058	2057	0.5	65	141	17	17.5	1	27
00-CAS- 1079	1.5	1694	2308	4	51	10	1311	2291	0.5	49	68	11	17.5	1	21
00-CAS- 1080	1.5	1724	877	4	48	12	1039	2160	0.5	44	118	18	17.5	1	19
00-CAS- 1081	1.5	1986	871	4	45	8	979	2040	0.5	51	130	21	17.5	1	25
00-CAS- 1082	1.5	2243	1031	4	65	8	1146	2319	0.5	55	104	14	17.5	1	22
00-CAS- 1108	1.5	3918	2118	4	40	54	1245	1467	1	16	219	20	17.5	1	91
00-CAS- 1109	1.5	2408	587	4	33	35	1120	1592	0.5	10	129	12	17.5	1	73
00-CAS- 1110	1.5	1760	1465	4	22	24	1205	1812	0.5	15	76	8	17.5	1	70
00-CAS- 1111	1.5	8431	1123	4	43	210	998	893	3	10	699	40	17.5	1	118
00-CAS- 1151	1.5	808	151	4	46	9	668	1648	0.5	25	110	15	17.5	1	36
00-CAS- 1152	1.5	774	83	4	22	7	602	1655	0.5	24	46	6	17.5	1	33
00-CAS- 1153	1.5	848	32	4	42	8	518	1688	0.5	31	94	13	17.5	1	23
00-CAS- 1154	1.5	714	21	4	41	10	568	2042	0.5	12	31	2	17.5	1	27
00-CAS- 1155	1.5	814	50	4	45	8	700	1916	0.5	23	30	2	17.5	1	22
00-CAS- 1156	1.5	1248	219	4	34	11	815	2047	0.5	35	57	9	17.5	1	23
00-CAS- 1157	1.5	1680	354	4	34	9	751	1510	0.5	39	125	17	17.5	1	31

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 1058	0.11	3528.49	N.M.	148.56	0.05	9014.03	0.675	4.631	11.23	4.75	1.17	10.99
00-CAS- 1059	0.06	3122.13	N.M.	127.61	0.12	7617.05	0.687	3.976	7.48	5.34	1.155	12.38
00-CAS- 1060	0.07	2888.87	N.M.	56.96	0.05	5807.73	0.309	3.617	5.21	4.77	0.701	7.17
00-CAS- 1061	0.06	1803.67	N.M.	61.63	0.05	6025.52	0.369	2.701	4.49	2.72	0.542	8.09
00-CAS- 1062	0.19	3134.94	N.M.	28.44	0.05	3652.95	0.413	4.045	3.49	4.74	0.944	6.47
00-CAS- 1063	0.2	5918.62	N.M.	100.56	0.1	5008.12	0.476	7.816	4.74	11.6	1.164	10.9
00-CAS- 1064	0.08	2869.63	N.M.	108.81	0.05	3821.66	0.472	4.632	1.05	5.24	0.272	10.71
00-CAS- 1066	0.15	1843.4	N.M.	132.31	0.05	8367.65	0.446	2.758	4.16	3.41	0.497	8.09
00-CAS- 1067	0.21	7572.44	N.M.	203.93	0.14	13347.5	0.651	9.398	13.68	14.08	1.256	16.19
00-CAS- 1068	0.12	4851.79	N.M.	146.62	0.14	15649.8	0.438	5.86	11.1	9.42	0.973	16.58
00-CAS- 1069	0.18	6689.73	N.M.	149.36	0.18	12234.6	0.466	10.105	13.58	12.36	1.388	14.92
00-CAS- 1070	0.27	4220.24	N.M.	120.45	0.16	6477.12	0.331	7.116	8.4	7.4	1.337	12.6
00-CAS- 1071	0.19	7202.56	N.M.	118.46	0.15	8868.9	0.301	7.055	8.08	18.28	1.026	12.56
00-CAS- 1072	0.12	2841.35	N.M.	105.51	0.1	6592.58	0.28	4.504	6.41	9.29	0.797	9.34
00-CAS- 1073	0.05	2719.9	N.M.	95.27	0.05	13746.8	0.768	3.342	6.14	6.25	0.805	10.67
00-CAS- 1074	0.28	3615.66	N.M.	257.84	0.23	13160.4	1.129	6.854	11.01	4.98	1.323	12.49
00-CAS- 1075	0.05	3650.86	N.M.	100.21	0.05	5148.97	0.362	5.075	3.53	7.23	0.756	9.35
00-CAS- 1076	0.14	3227.09	N.M.	303.38	0.14	11685.1	1.027	5.074	14.46	6.1	1.16	13.72
00-CAS- 1077	0.28	5152.27	N.M.	184.67	0.15	8267.04	0.468	6.146	10.7	7.56	1.011	13.86
00-CAS- 1078	0.35	3524.17	N.M.	252.43	0.12	16491.4	0.581	5.285	8.77	6.8	0.938	14.45
00-CAS- 1079	0.08	3517.44	N.M.	196.64	0.1	11767.3	0.447	4.938	11.94	6.18	1.204	11.3
00-CAS- 1080	0.13	3592.64	N.M.	150.93	0.13	11848.1	0.606	5.17	6.56	5.53	0.911	16.42
00-CAS- 1081	0.15	2985.8	N.M.	165.95	0.12	13047.6	0.592	5.708	8.84	6.14	0.84	13.73
00-CAS- 1082	0.09	2476.49	N.M.	142.76	0.05	13038.5	0.337	3.296	7.91	3.94	1.032	13.68
00-CAS- 1108	0.05	4869.28	N.M.	224.07	0.05	4866.42	0.614	6.996	9.79	85.26	1.081	8.72
00-CAS- 1109	0.02	3252.54	N.M.	95.31	0.05	3310.69	0.407	4.131	6.89	46	0.844	7.2
00-CAS- 1110	0.14	2377.66	N.M.	319.41	0.05	7086.68	0.487	3.804	5.46	16.62	0.894	9.28
00-CAS- 1111	0.07	8676.01	N.M.	149.33	0.18	2360.33	0.515	8.962	46.28	298.57	0.894	7.94
00-CAS- 1151	0.01	3704.65	N.M.	160.81	0.05	5586.62	0.393	5.888	2.12	8.17	0.781	12.68
00-CAS- 1152	0.01	2349.06	N.M.	107.97	0.05	9661.32	0.458	4.646	1.21	3.23	0.176	10.94
00-CAS- 1153	0.01	2956.82	N.M.	111.36	0.05	4924.57	0.512	5.373	1.91	4.51	0.443	8.37
00-CAS- 1154	0.01	1562.11	N.M.	19.31	0.05	10025.7	0.393	2.974	0.85	2.6	0.227	12.68
00-CAS- 1155	0.04	1298.74	N.M.	43.37	0.05	14675.3	0.241	2.133	1	5.11	0.315	15.6
00-CAS- 1156	0.23	2639.42	N.M.	90.02	0.1	6982.63	0.434	5.326	6.66	3.16	0.426	12.68
00-CAS- 1157	0.12	3669.87	N.M.	138.7	0.12	7172.14	0.44	6.323	3.58	5.41	0.738	11.72

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 1058	0.253	0.131	0.106	4212.83	1.88	0.605	0.025	0.16	0.055	3.505	2.58	0.019	1621.06
00-CAS- 1059	0.264	0.098	0.093	3846.09	1.51	0.573	0.025	0.25	0.049	2.86	2.1	0.017	1437.86
00-CAS- 1060	0.21	0.118	0.075	3607.11	1.3	0.539	0.025	0.2	0.043	2.61	1.63	0.012	1179.76
00-CAS- 1061	0.174	0.064	0.064	2095.19	0.85	0.388	0.025	0.21	0.036	2.248	0.98	0.006	838.96
00-CAS- 1062	0.217	0.098	0.081	3962.63	1.84	0.603	0.025	0.19	0.048	2.987	1.99	0.015	946.06
00-CAS- 1063	0.319	0.123	0.128	9097	3.28	0.901	0.025	0.25	0.061	4.811	2.9	0.02	1434.01
00-CAS- 1064	0.253	0.096	0.098	2801.8	0.9	0.594	0.025	0.28	0.059	2.582	0.53	0.022	537.79
00-CAS- 1066	0.187	0.085	0.076	2181	0.91	0.389	0.025	0.14	0.036	2.144	0.84	0.013	1264.15
00-CAS- 1067	0.395	0.194	0.157	10651.4	2.93	0.998	0.025	0.14	0.082	5.001	4.79	0.03	3268.38
00-CAS- 1068	0.274	0.112	0.103	5746.91	1.62	0.622	0.025	0.18	0.058	3.183	2.77	0.021	2713.3
00-CAS- 1069	0.498	0.227	0.193	9313.35	2.75	1.221	0.025	0.17	0.102	5.955	3.41	0.032	2614.74
00-CAS- 1070	0.463	0.233	0.16	4056.81	1.84	1.049	0.025	0.22	0.096	5.794	1.78	0.033	1203.34
00-CAS- 1071	0.292	0.131	0.126	12733	3.61	0.794	0.025	0.15	0.062	4.452	5.12	0.021	2617.96
00-CAS- 1072	0.228	0.094	0.095	5109.84	1.96	0.672	0.025	0.19	0.047	3.441	1.63	0.018	1261.06
00-CAS- 1073	0.199	0.094	0.074	3325.77	0.96	0.43	0.025	0.22	0.039	2.486	1.1	0.016	1852.23
00-CAS- 1074	0.425	0.178	0.17	3939.6	1.86	0.913	0.025	0.36	0.09	5.437	1.73	0.031	1422.02
00-CAS- 1075	0.276	0.152	0.114	4791.57	1.96	0.749	0.025	0.38	0.059	3.912	2.23	0.021	1037.93
00-CAS- 1076	0.307	0.132	0.131	4561.14	1.9	0.705	0.025	0.25	0.061	3.552	1.99	0.027	1721.94
00-CAS- 1077	0.338	0.151	0.135	6166.08	2.37	0.887	0.025	0.18	0.066	4.31	3.2	0.028	1939.04
00-CAS- 1078	0.292	0.113	0.113	4925.73	1.54	0.639	0.025	0.19	0.052	3.291	1.64	0.023	2308.85
00-CAS- 1079	0.242	0.115	0.11	4009.7	1.23	0.56	0.025	0.2	0.057	3.175	1.28	0.021	1742.82
00-CAS- 1080	0.274	0.135	0.1	4921.44	1.48	0.607	0.025	0.23	0.055	3.13	1.38	0.024	1555.73
00-CAS- 1081	0.324	0.121	0.127	4543.46	1.68	0.696	0.025	0.18	0.065	3.409	1.58	0.021	1777.12
00-CAS- 1082	0.154	0.077	0.096	3469.07	1.06	0.421	0.025	0.16	0.033	2.074	1.4	0.017	2004.44
00-CAS- 1108	0.297	0.137	0.175	18307.6	2.2	0.857	0.025	0.28	0.059	4.221	1.86	0.029	3486.55
00-CAS- 1109	0.168	0.084	0.078	12048.6	1.25	0.46	0.025	0.25	0.028	2.272	1.2	0.016	2190.79
00-CAS- 1110	0.19	0.091	0.139	5067.91	1.03	0.467	0.025	0.41	0.035	2.208	0.89	0.026	1831.42
00-CAS- 1111	0.441	0.193	0.162	67585.6	3.5	1.071	0.025	0.2	0.077	4.865	2.2	0.029	8344.43
00-CAS- 1151	0.217	0.114	0.136	4997.24	1.48	0.643	0.025	0.24	0.045	2.908	1.26	0.02	836.39
00-CAS- 1152	0.274	0.147	0.115	2951.92	0.85	0.608	0.025	0.28	0.062	2.73	0.25	0.02	715.58
00-CAS- 1153	0.319	0.121	0.115	3634	1.16	0.577	0.025	0 27	0.056	2.995	0.87	0.023	752.43
00-CAS- 1154	0.194	0.094	0.05	1999.52	0.61	0.407	0.025	0.29	0.041	1.7	0.25	0.013	753.23
00-CAS- 1155	0.121	0.073	0.053	1647.53	0.49	0.281	0.025	0.14	0.027	1.298	0.25	0.012	801.31
00-CAS- 1156	0.254	0.12	0.097	3423.22	1.07	0.66	0.025	0.18	0.052	3.215	0.65	0.017	1155.76
00-CAS- 1157	0.268	0.133	0.131	5275.44	1.82	0.678	0.025	0.16	0.059	4.052	1.18	0.023	1550.3

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 1058	855.75	0.57	0.35	2.49	7.65	47.26	0.705	12.22	0.29	0.94	0.432	0.86	45.8
00-CAS- 1059	301.77	0.45	0.28	2.36	8.2	36.18	0.636	8.72	0.21	0.9	0.402	0.67	45.6
00-CAS- 1060	136.78	0.32	0.28	2.02	6.63	29.92	0.613	8.03	0.23	0.87	0.349	0.57	32.4
00-CAS- 1061	110.13	0.42	0.18	1.65	5.04	37.41	0.483	6.43	0.29	0.72	0.285	0.7	34.6
00-CAS- 1062	28.55	0.52	0.36	2.47	5.87	38.03	0.67	7.26	0.32	0.95	0.425	0.72	17.1
00-CAS- 1063	97.77	0.91	0.59	3.68	8.75	51.88	1.059	12.31	0.45	1.42	0.641	1.31	22.1
00-CAS- 1064	50.18	0.57	0.15	2.23	4.37	51.54	0.645	5.16	0.5	0.83	0.388	0.74	19.6
00-CAS- 1066	667.76	0.46	0.16	1.62	4.89	35.16	0.462	9.44	0.28	0.58	0.261	0.59	44.8
00-CAS- 1067	1890	0.6	0.53	3.79	13.22	43.74	1.11	14.58	0.25	1.31	0.604	0.65	53.3
00-CAS- 1068	1039.42	0.49	0.32	2.41	10.32	45.02	0.69	11.01	0.28	0.9	0.371	0.74	56.5
00-CAS- 1069	1186.32	0.73	0.49	4.73	12.57	50.39	1.364	17.41	0.34	1.45	0.849	0.86	46
00-CAS- 1070	301.78	0.94	0.28	4.09	9.24	40.14	1.216	14.15	0.35	1.34	0.683	0.91	36.4
00-CAS- 1071	433.4	0.88	0.69	3.34	11.3	41.5	0.956	13.07	0.29	1.3	0.548	0.92	32.8
00-CAS- 1072	285.31	0.54	0.37	2.67	8.07	40.93	0.754	10.33	0.27	0.94	0.453	0.76	33
00-CAS- 1073	380.79	0.34	0.2	1.76	6.64	30.99	0.481	8.29	0.22	0.64	0.277	0.53	51.9
00-CAS- 1074	2106.34	0.66	0.26	3.54	8.84	64.56	1.084	21.8	0.41	1.12	0.646	1	57.6
00-CAS- 1075	161.55	0.56	0.38	3.04	6.79	37.4	0.871	9.12	0.38	1.02	0.482	0.82	29.4
00-CAS- 1076	3073.32	0.72	0.29	2.6	10.47	65.6	0.786	12.72	0.34	0.96	0.472	0.81	65.4
00-CAS- 1077	851.85	0.5	0.44	3.33	9.15	40.6	0.914	12.39	0.31	1.25	0.515	0.78	44.8
00-CAS- 1078	1793.06	0.43	0.33	2.44	8.39	44.94	0.701	12.18	0.3	0.91	0.409	0.76	65.3
00-CAS- 1079	1987.66	0.59	0.21	2.36	9.56	46.14	0.685	16.8	0.32	0.82	0.415	0.76	51.9
00-CAS- 1080	784.65	0.66	0.28	2.25	11.03	44.3	0.687	10.51	0.34	0.87	0.411	0.71	46.7
00-CAS- 1081	730.89	0.73	0.1	2.54	7.67	43.49	0.743	10.59	0.33	0.85	0.463	0.25	55.9
00-CAS- 1082	850.96	0.38	0.025	1.56	8.09	28.21	0.418	10.12	0.16	0.62	0.243	0.25	59.8
00-CAS- 1108	1692.5	0.73	0.17	3.48	45.5	55.17	0.974	10.56	0.63	1.45	0.591	1.08	16.3
00-CAS- 1109	524.05	0.56	0.025	1.86	32.24	31.2	0.508	10.77	0.37	1.09	0.338	0.67	10.9
00-CAS- 1110	1342.12	0.58	0.025	1.75	23.74	46.39	0.493	10.24	0.53	0.98	0.26	0.57	17.6
00-CAS- 1111	1022.3	0.88	0.94	4.12	181.28	57.54	1.166	10.86	0.61	2.91	0.668	0.95	11.5
00-CAS- 1151	141.97	0.61	0.08	2.4	8.19	33.14	0.689	8.56	0.3	0.98	0.437	0.25	26.9
00-CAS- 1152	72.88	0.7	0.025	2.4	6.24	35.8	0.663	2.57	0.38	0.86	0.401	0.25	25.2
00-CAS- 1153	27.91	0.7	0.025	2.48	7.14	26.94	0.722	4.91	0.37	0.92	0.472	0.25	32
00-CAS- 1154	20.84	0.72	0.025	1.43	10.42	30.2	0.419	3.54	0.32	0.61	0.294	0.25	12.9
00-CAS- 1155	43.34	1.94	0.025	1.23	7.81	23.58	0.306	4.69	0.24	0.55	0.223	0.25	25.7
00-CAS- 1156	208.66	0.53	0.025	2.39	10.86	44.12	0.7	6.23	0.36	0.98	0.417	0.25	38
00-CAS- 1157	318.07	0.55	0.05	2.8	8.04	37.78	0.856	8	0.35	0.94	0.488	0.25	43.2

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 1058	0.025	0.059	0.7	5	0.1	0.017	0.217	5	0.08	1.25	0.107	52.12	0.77
00-CAS- 1059	0.025	0.057	0.58	5	0.06	0.012	0.174	5	0.1	1.16	0.088	37.44	1.12
00-CAS- 1060	0.025	0.054	0.52	5	0.025	0.013	0.14	5	0.07	1.09	0.08	17.63	1.18
00-CAS- 1061	0.025	0.025	0.38	5	0.05	0.009	0.152	5	0.08	0.86	0.069	17.12	1.22
00-CAS- 1062	0.025	0.055	0.7	5	0.06	0.012	0.188	5	0.09	1.14	0.097	24.81	1.66
00-CAS- 1063	0.025	0.077	1.01	5	0.1	0.023	0.305	30	0.11	1.5	0.135	53.84	1.58
00-CAS- 1064	0.025	0.055	0.54	30	0.07	0.016	0.165	5	0.09	1.21	0.111	35.66	1.01
00-CAS- 1066	0.025	0.025	0.4	5	0.05	0.012	0.123	5	0.06	0.93	0.066	27.29	0.76
00-CAS- 1067	0.025	0.089	0.94	114	0.09	0.026	0.248	34	0.08	1.91	0.163	27.24	1.04
00-CAS- 1068	0.025	0.065	0.43	38	0.08	0.015	0.199	10	0.07	1.41	0.105	19.74	1.09
00-CAS- 1069	0.025	0.126	0.69	63	0.11	0.028	0.287	32	0.07	2.55	0.196	26.15	0.8
00-CAS- 1070	0.025	0.114	0.21	12	0.13	0.028	0.411	5	0.18	2.45	0.176	21.01	0.49
00-CAS- 1071	0.025	0.084	0.9	76	0.09	0.023	0.232	46	0.17	1.55	0.109	24.94	1.48
00-CAS- 1072	0.025	0.062	0.57	22	0.06	0.016	0.181	5	0.09	1.15	0.081	19.3	0.9
00-CAS- 1073	0.025	0.025	0.25	12	0.025	0.011	0.129	5	0.09	1.07	0.086	27.83	0.84
00-CAS- 1074	0.025	0.09	0.22	5	0.22	0.028	0.319	5	0.08	2.24	0.158	47.93	0.42
00-CAS- 1075	0.025	0.074	0.62	12	0.12	0.022	0.211	5	0.11	1.46	0.12	28.48	0.97
00-CAS- 1076	0.025	0.072	0.55	10	0.16	0.02	0.227	5	0.1	1.46	0.108	23.86	0.86
00-CAS- 1077	0.025	0.095	0.47	16	0.09	0.019	0.237	5	0.09	1.74	0.123	27.18	0.74
00-CAS- 1078	0.025	0.066	0.5	12	0.1	0.013	0.191	5	0.08	1.27	0.094	26.43	0.97
00-CAS- 1079	0.025	0.061	0.41	5	0.09	0.017	0.21	5	0.07	1.27	0.109	20.82	0.71
00-CAS- 1080	0.025	0.06	0.5	5	0.08	0.017	0.196	5	0.08	1.23	0.113	18.69	0.96
00-CAS- 1081	0.025	0.063	0.37	41	0.1	0.018	0.19	5	0.025	1.43	0.112	25.59	0.94
00-CAS- 1082	0.025	0.025	0.29	19	0.06	0.014	0.116	5	0.025	0.86	0.074	23.06	0.88
00-CAS- 1108	0.025	0.085	0.6	30	0.36	0.019	0.281	5	0.025	1.33	0.11	88.16	0.79
00-CAS- 1109	0.025	0.025	0.48	17	0.15	0.013	0.159	5	0.025	0.73	0.078	73.07	1
00-CAS- 1110	0.025	0.025	0.47	10	0.27	0.013	0.215	5	0.025	0.9	0.074	78.36	0.8
00-CAS- 1111	0.025	0.102	1.05	88	0.17	0.026	0.309	16	0.025	1.76	0.147	116.26	3.91
00-CAS- 1151	0.025	0.064	0.7	5	0.08	0.021	0.225	5	0.025	1.16	0.089	37.86	1.31
00-CAS- 1152	0.025	0.069	0.49	5	0.025	0.021	0.203	5	0.025	1.47	0.124	33.57	1.26
00-CAS- 1153	0.025	0.065	0.7	5	0.06	0.023	0.229	5	0.025	1.35	0.118	23.43	1.26
00-CAS- 1154	0.025	0.025	0.49	5	0.025	0.015	0.14	5	0.025	0.95	0.08	30.1	0.9
00-CAS- 1155	0.025	0.025	0.48	5	0.025	0.013	0.118	5	0.025	0.7	0.065	24.82	0.75
00-CAS- 1156	0.025	0.063	0.49	5	0.07	0.018	0.259	5	0.025	1.22	0.109	23.07	1.16
00-CAS- 1157	0.025	0.074	0.48	5	0.09	0.022	0.244	5	0.025	1.24	0.117	33.32	0.88

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 1158	8.88	2.91	2.42	1207	164	1.5	17111	1	5	2	13	2144	1009
00-CAS- 1159	1.09	3.24	2.32	7164	187	1.5	7525	3	10	16	11	15950	729
00-CAS- 1160	2.54	3.73	2.27	4713	341	1.5	28015	3	18	7	19	6440	1028
00-CAS- 1161	4.47	3	2.33	5368	62	1.5	10905	2	6	10	17	8114	516
00-CAS- 1162	4.3	5.55	2.85	10577	124	1.5	13088	2	13	11	58	11400	811
00-CAS- 1163	2.5	3.13	3.24	3471	172	1.5	12654	1	2.5	6	14	6008	838
00-CAS- 1166	2.87	3.89	2.46	2839	267	1.5	17776	1	10	6	12	5097	883
00-CAS- 1167	2.55	3.77	3.76	4651	182	1.5	10049	2	8	7	15	7462	809
00-CAS- 1168	2.08	3.94	2.27	3413	433	1.5	16466	2	10	6	16	4991	846
00-CAS- 1169	2.75	4.53	3.5	5634	309	1.5	16263	2	9	9	16	8293	926
00-CAS- 1171	2.18	4.08	3.62	3945	279	1.5	32297	2	9	7	27	7131	707
00-CAS- 1172	1.25	4.82	3.25	3463	298	1.5	18030	1	6	7	15	6061	949
00-CAS- 1173	2.6	5.78	5.06	4969	542	1.5	19012	3	8	12	16	9366	990
00-CAS- 1174	2	4.18	3.38	3284	214	1.5	17180	1	2.5	6	20	5327	658
00-CAS- 1175	2.72	5.16	4.64	5227	757	1.5	18480	4	14	9	15	7802	1160
00-CAS- 1176	4.04	3.73	3.88	10997	553	1.5	8375	4	14	20	13	17878	1120
00-CAS- 1177	1.72	5.61	4.02	5441	555	1.5	16619	3	13	12	17	9100	1043
00-CAS- 1178	2.56	5.26	4.8	3742	474	1.5	16982	2	10	6	17	5950	1192
00-CAS- 1179	3.57	6.51	5.18	6740	731	1.5	21562	3	12	10	15	10214	1100
00-CAS- 1180	4	5.22	4.48	7318	573	1.5	16256	3	12	13	13	11497	1040
00-CAS- 1181	4.06	6.39	4.31	5461	460	1.5	11338	3	10	14	12	11914	1011
00-CAS- 1182	2.83	6.1	4.68	8888	615	1.5	15253	4	16	15	15	14837	1118
00-CAS- 1183	2.18	5.93	4.37	10451	656	1.5	9758	4	21	17	13	15037	1420
00-CAS- 1184	5.86	4.61	3.34	10695	369	1.5	7383	3	13	20	10	19136	712
00-CAS- 1185	3.88	6.12	4.52	7827	429	1.5	16072	4	10	15	19	12847	1311
00-CAS- 1186	3.26	5.25	4.49	4516	404	1.5	20761	2	12	7	22	6055	1007
00-CAS- 1187	3.58	3.04	1.76	1854	367	1.5	15307	1	2.5	2	14	2950	1048
00-CAS- 1188	2.41	1.45	0.93	2748	208	1.5	19724	1	6	5	26	4152	1224
00-CAS- 1189	3.12	4.85	4.57	4104	458	1.5	17737	2	8	8	11	6891	936
00-CAS- 1191	2.01	2.83	2.4	8062	454	1.5	16089	4	16	14	15	13452	1096
00-CAS- 1192	0.45	1.93	1.72	5564	477	1.5	24958	3	13	8	16	8004	1195
00-CAS- 1193	1.93	2.26	2.07	7225	295	1.5	12248	3	8	16	15	12363	608
00-CAS- 1194	2.53	2.82	2.65	5785	324	1.5	8483	1	10	12	12	8979	1031
00-CAS- 1195	2	2.32	1.92	3737	222	1.5	5908	1	2.5	7	14	5364	877
00-CAS- 1196	1.7	2.63	2.01	3623	89	1.5	11778	1	2.5	5	8	4699	631

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 1158	1.5	1753	1051	4	62	6	1207	1983	0.5	62	29	2	17.5	1	33
00-CAS- 1159	4	2052	1226	4	86	15	690	744	1	34	350	53	17.5	1	35
00-CAS- 1160	1.5	2306	2922	4	47	13	1269	2441	0.5	78	68	13	17.5	1	112
00-CAS- 1161	1.5	1634	285	4	84	11	626	1447	1	31	213	28	17.5	2	26
00-CAS- 1162	1.5	1450	655	4	65	19	1015	1827	4	34	148	23	17.5	10	26
00-CAS- 1163	1.5	1411	370	4	44	8	859	1641	0.5	46	116	16	17.5	1	44
00-CAS- 1166	1.5	1820	1707	4	35	11	1021	2063	0.5	70	113	14	17.5	1	30
00-CAS- 1167	1.5	1618	877	4	33	11	858	1576	0.5	38	145	21	17.5	1	48
00-CAS- 1168	1.5	1491	2367	4	17	11	1028	2011	0.5	57	61	10	17.5	1	60
00-CAS- 1169	1.5	1916	1111	4	49	11	959	1925	0.5	61	141	22	17.5	1	75
00-CAS- 1171	1.5	2098	1709	4	39	13	976	2285	0.5	39	91	14	17.5	1	153
00-CAS- 1172	1.5	2238	1698	4	37	10	1034	1715	0.5	55	111	15	17.5	1	48
00-CAS- 1173	1.5	2340	2086	4	57	15	1189	1541	0.5	47	202	29	17.5	1	187
00-CAS- 1174	1.5	1221	396	4	20	13	951	1908	0.5	30	102	11	17.5	1	29
00-CAS- 1175	1.5	2172	4907	4	34	14	1055	1305	0.5	63	110	17	17.5	2	214
00-CAS- 1176	5	2566	2596	4	142	18	717	601	2	34	465	63	17.5	2	129
00-CAS- 1177	1.5	2285	3875	4	61	13	1121	1377	0.5	61	176	26	17.5	1	169
00-CAS- 1178	1.5	1741	2897	4	44	11	1214	1740	0.5	55	105	13	17.5	1	101
00-CAS- 1179	3	2358	2539	4	61	15	1100	1787	1	81	181	26	17.5	2	99
00-CAS- 1180	4	2500	2398	4	86	13	974	1186	1	62	266	35	17.5	1	116
00-CAS- 1181	1.5	1930	2376	4	82	13	1006	1049	1	44	315	43	17.5	1	120
00-CAS- 1182	4	3069	4179	4	99	17	1213	1149	1	56	331	42	17.5	1	237
00-CAS- 1183	5	2346	5418	4	81	18	1279	1060	2	40	254	39	17.5	3	125
00-CAS- 1184	6	2837	1774	4	118	17	614	499	1	29	501	63	17.5	2	82
00-CAS- 1185	4	2474	1727	4	100	15	1260	1243	1	51	287	43	17.5	2	212
00-CAS- 1186	1.5	1737	2916	4	37	16	1014	1641	1	49	89	14	17.5	3	181
00-CAS- 1187	1.5	1462	878	4	22	6	1015	1597	0.5	48	51	7	17.5	1	129
00-CAS- 1188	1.5	1093	1062	4	31	10	1150	1807	0.5	34	48	8	17.5	1	87
00-CAS- 1189	1.5	2192	2089	4	33	11	844	1554	0.5	60	114	17	17.5	1	44
00-CAS- 1191	4	2628	3473	4	86	17	916	1249	1	57	304	41	17.5	1	101
00-CAS- 1192	1.5	2631	2747	4	57	12	1202	1911	0.5	85	133	19	17.5	1	121
00-CAS- 1193	4	1884	1037	4	183	14	594	1086	1	47	382	47	17.5	1	59
00-CAS- 1194	1.5	1432	1599	4	58	11	849	1171	1	38	203	29	17.5	1	39
00-CAS- 1195	1.5	842	140	4	52	13	831	1275	0.5	22	108	12	17.5	2	36
00-CAS- 1196	1.5	840	130	4	49	6	776	1874	0.5	38	81	10	17.5	1	22

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 1158	0.1	1261.06	N.M.	168.47	0.05	12709.2	0.717	2.352	4.1	2.34	0.625	14.38
00-CAS- 1159	0.1	7363.34	N.M.	190.86	0.12	5952.3	0.387	10.994	8.12	14.08	0.951	12.17
00-CAS- 1160	0.08	3645.88	N.M.	317.14	0.14	16231.7	1.496	5.688	14.07	5.02	1.317	15.07
00-CAS- 1161	0.12	5510.44	N.M.	63.67	0.16	8239.94	0.534	12.752	5.21	8.48	0.68	19.06
00-CAS- 1162	0.43	10881	N.M.	131.75	0.28	10462.6	0.307	28.082	12.03	10.16	1.21	57.03
00-CAS- 1163	0.25	3680.94	N.M.	175.14	0.05	9972.76	0.709	5.168	4.43	4.97	1.075	15.38
00-CAS- 1166	0.07	2917.32	N.M.	266.53	0.1	13921.4	0.681	4.677	7.62	4.2	0.919	13.43
00-CAS- 1167	0.04	5180.8	N.M.	200.88	0.15	8246.12	0.899	8.132	7.45	6.5	1.219	17.25
00-CAS- 1168	0.43	3622.1	N.M.	382.01	0.05	13065.4	1.024	5.535	6.44	3.97	1.112	16.39
00-CAS- 1169	0.1	5905.23	N.M.	298.55	0.14	12706.5	1.009	7.347	7.31	8.38	0.676	17.35
00-CAS- 1171	0.06	4215.4	N.M.	277.83	0.12	25422	0.883	7.037	6.7	6.1	0.978	27.93
00-CAS- 1172	0.2	3732.9	N.M.	294.81	0.1	14595.7	0.702	4.909	3.51	5.16	1.738	16.6
00-CAS- 1173	0.18	5448.47	N.M.	516.03	0.13	15804.4	1.147	8.259	5.1	10.33	0.709	17.85
00-CAS- 1174	0.23	3519.33	N.M.	216.86	0.16	14007.3	0.827	6.716	3.79	4.4	0.857	21.81
00-CAS- 1175	0.29	5865.96	N.M.	657.82	0.22	15283.8	1.942	10.35	8.04	6.79	1.269	15.63
00-CAS- 1176	0.14	11320.4	N.M.	488.47	0.23	7167.01	0.992	16.433	9.98	17.81	0.959	12.79
00-CAS- 1177	0.19	5649.12	N.M.	491.53	0.1	14084.6	1.217	8.419	7.46	11.09	1.666	17.58
00-CAS- 1178	0.09	3899.66	N.M.	423.14	0.12	13872.5	1.122	5.428	6.14	4.94	1.599	17.11
00-CAS- 1179	0.14	6800.93	N.M.	618.82	0.21	17121.7	0.91	10.217	9.18	7.9	1.583	14.1
00-CAS- 1180	0.2	7654.34	N.M.	514.94	0.17	13419.9	1.071	11.192	8.86	10.78	0.973	13.11
00-CAS- 1181	0.19	5936.41	N.M.	438.06	0.16	9151.17	0.761	10.7	6.8	11.48	0.77	12.76
00-CAS- 1182	0.14	9186.52	N.M.	546.34	0.2	12232.1	1.076	11.472	9.31	13.15	1.065	14.58
00-CAS- 1183	0.36	10512.1	N.M.	556.94	0.3	8030.78	0.825	16.703	12.96	14.76	1.492	12.29
00-CAS- 1184	0.19	11324.5	N.M.	356.93	0.26	6467.22	0.426	14.29	10.37	19.27	0.898	10.54
00-CAS- 1185	0.15	7794.57	N.M.	397.14	0.14	12955.7	1.126	11.155	7.39	13.77	0.785	19.98
00-CAS- 1186	0.16	4555.6	N.M.	377.82	0.14	16852.4	1.187	9.72	8.17	5.42	0.825	22.66
00-CAS- 1187	0.08	1850.59	N.M.	344.62	0.05	11653.4	1.066	3.142	2.48	2.2	0.553	14.1
00-CAS- 1188	0.3	2783.68	N.M.	210.54	0.12	15752.3	1.112	6.943	5.19	3.05	0.851	26.86
00-CAS- 1189	0.12	4075.88	N.M.	435.66	0.14	13910.2	0.953	6.954	4.96	5.89	1.035	11.4
00-CAS- 1191	0.11	7882.47	N.M.	424.18	0.21	12895	1.212	11.257	11.11	11.6	1.124	15.03
00-CAS- 1192	0.12	5872.7	N.M.	450.14	0.17	19769.4	1.078	7.322	9.05	6.37	1.246	16.83
00-CAS- 1193	0.17	7043.46	N.M.	284.2	0.12	9922.01	0.491	12.934	5.64	12.32	0.666	14.7
00-CAS- 1194	0.16	5870.71	N.M.	310.06	0.16	6938.06	0.368	9.806	7.97	9.66	0.938	12.26
00-CAS- 1195	0.19	3643.37	N.M.	214.36	0.14	4668.29	0.567	9.425	3.79	6.99	0.484	14.48
00-CAS- 1196	0.06	3570.99	N.M.	91.33	0.12	9783.09	0.377	6.98	2.53	4.08	0.307	8.85

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 1158	0.127	0.068	0.089	1889.6	0.57	0.315	0.025	0.16	0.023	1.942	0.25	0.017	1649.29
00-CAS- 1159	0.412	0.15	0.166	13341.8	4.13	1.129	0.025	0.08	0.076	6.439	3.6	0.033	1975.02
00-CAS- 1160	0.408	0.14	0.165	3878.64	1.58	0.891	0.025	0.32	0.082	4.092	2.37	0.032	1674.95
00-CAS- 1161	0.505	0.229	0.187	6826.87	2.5	1.467	0.025	0.16	0.106	8.162	1.88	0.031	1543.47
00-CAS- 1162	2.35	1.127	0.843	9986.09	3.44	4.712	0.025	0.28	0.468	21.958	2.55	0.162	1404.94
00-CAS- 1163	0.227	0.123	0.137	4995.68	1.51	0.621	0.025	0.14	0.04	4.038	1.32	0.02	1421.71
00-CAS- 1166	0.244	0.115	0.159	4153.67	1.33	0.587	0.025	0.18	0.048	4.256	1.22	0.034	1736.94
00-CAS- 1167	0.365	0.161	0.161	6565.83	2.19	0.879	0.025	0.24	0.061	4.803	1.79	0.03	1641.38
00-CAS- 1168	0.308	0.136	0.203	4149.82	1.3	0.686	0.025	0.37	0.06	3.659	1.06	0.04	1460.93
00-CAS- 1169	0.345	0.165	0.21	7277.04	2.09	0.796	0.025	0.27	0.068	4.559	2.54	0.037	1947.06
00-CAS- 1171	0.34	0.156	0.181	6438.61	1.21	0.797	0.025	0.26	0.065	3.491	2.66	0.035	2112.33
00-CAS- 1172	0.224	0.096	0.14	5212.31	1.42	0.559	0.025	0.25	0.045	3.245	1.76	0.029	2382.97
00-CAS- 1173	0.267	0.141	0.272	8001.27	2.02	0.779	0.025	0.22	0.067	4.554	3.19	0.042	2542.54
00-CAS- 1174	0.354	0.163	0.175	4704.19	1.52	0.855	0.025	0.25	0.075	4.028	1.25	0.038	1290.4
00-CAS- 1175	0.533	0.246	0.345	6742.62	2.12	1.21	0.025	0.22	0.095	5.926	2.8	0.067	2175.7
00-CAS- 1176	0.518	0.262	0.33	15350	4.5	1.488	0.025	0.1	0.109	8.136	6.94	0.055	2527.36
00-CAS- 1177	0.262	0.125	0.236	8070.64	2.29	0.876	0.025	0.19	0.066	4.541	2.69	0.05	2174.28
00-CAS- 1178	0.254	0.094	0.222	5016.3	1.27	0.58	0.025	0.31	0.046	3.219	1.75	0.035	1680.12
00-CAS- 1179	0.48	0.217	0.36	8192.71	2.72	1.228	0.025	0.3	0.103	6.312	3.77	0.069	2218.94
00-CAS- 1180	0.39	0.184	0.3	9708.41	3.37	1.241	0.025	0.16	0.07	6.536	4.84	0.044	2626.87
00-CAS- 1181	0.385	0.156	0.271	10241.5	2.91	1.129	0.025	0.16	0.06	5.477	3.52	0.038	1939.01
00-CAS- 1182	0.437	0.193	0.274	12298.6	3.67	1.136	0.025	0.14	0.081	6.018	5.5	0.053	2963.57
00-CAS- 1183	0.713	0.349	0.392	12335.6	3.96	1.784	0.025	0.2	0.138	9.488	5.53	0.066	2249.36
00-CAS- 1184	0.452	0.193	0.264	16494.5	5.06	1.367	0.025	0.11	0.091	7.596	7.08	0.045	2886.18
00-CAS- 1185	0.442	0.198	0.254	10586.7	2.78	1.172	0.025	0.14	0.093	5.887	4.51	0.041	2346.4
00-CAS- 1186	0.517	0.256	0.279	5024.47	1.51	1.246	0.025	0.25	0.11	5.883	2.13	0.047	1603.29
00-CAS- 1187	0.144	0.082	0.16	2312.73	0.6	0.334	0.025	0.15	0.029	2.105	0.77	0.025	1256.7
00-CAS- 1188	0.377	0.164	0.183	3379.26	0.97	0.951	0.025	0.26	0.073	4.758	1.23	0.026	1009.28
00-CAS- 1189	0.328	0.156	0.229	5496.97	1.6	0.891	0.025	0.25	0.074	4.725	1.85	0.046	2014.23
00-CAS- 1191	0.427	0.22	0.267	11008.1	3.45	1.239	0.025	0.19	0.081	6.406	4.57	0.046	2458.83
00-CAS- 1192	0.348	0.162	0.233	6758.41	2.08	0.854	0.025	0.22	0.075	4.911	3.15	0.038	2453.36
00-CAS- 1193	0.395	0.175	0.21	9638.01	2.69	1.117	0.025	0.18	0.077	6.029	3.94	0.036	1743.74
00-CAS- 1194	0.361	0.154	0.218	7271.31	2.73	1.031	0.025	0.23	0.073	6.128	2.62	0.031	1310.27
00-CAS- 1195	0.448	0.205	0.215	4433.3	1.63	1.02	0.025	0.3	0.092	5.459	1	0.043	751.17
00-CAS- 1196	0.407	0.19	0.152	3947.52	1.4	0.882	0.025	0.34	0.08	4.204	0.67	0.025	769.16

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 1158	934.46	0.3	0.025	1.22	6.04	15.14	0.361	10.22	0.17	0.43	0.181	0.25	66.6
00-CAS- 1159	1133.68	0.7	0.42	4.55	12.98	40.03	1.351	13.22	0.28	1.29	0.742	0.25	37.5
00-CAS- 1160	1764.56	0.47	0.29	3.11	10.89	44.23	0.913	21.77	0.38	0.93	0.585	0.63	77.3
00-CAS- 1161	263.14	0.95	0.24	5.71	9.94	39.66	1.743	8.56	0.43	1.43	1.046	0.25	33
00-CAS- 1162	608.64	1.41	0.2	19.59	17.35	28.73	5.789	13.98	0.47	4.01	3.505	0.25	36.3
00-CAS- 1163	348.74	0.56	0.025	2.69	7.02	34.24	0.746	13.06	0.31	0.85	0.438	0.25	49.6
00-CAS- 1166	1521.25	0.46	0.025	2.53	9.72	35.05	0.735	13.72	0.27	0.76	0.394	0.25	74.8
00-CAS- 1167	840.75	0.66	0.14	3.48	10.7	55.11	1.087	10.74	0.4	1.15	0.571	0.25	43.2
00-CAS- 1168	2106.49	0.39	0.025	2.8	9.6	51.83	0.803	11.35	0.34	0.78	0.462	0.25	60.6
00-CAS- 1169	1028.25	0.6	0.48	3.17	11.01	51.09	0.98	9.96	0.33	1.09	0.596	0.77	64.8
00-CAS- 1171	1607.15	1.6	0.33	3.02	14.06	52.4	0.844	8.9	0.28	1.14	0.562	0.66	42.5
00-CAS- 1172	1560.28	0.53	0.34	2.38	9.67	35.64	0.704	13.91	0.3	0.9	0.369	0.65	58.9
00-CAS- 1173	1939.5	0.61	0.44	3.36	14.02	44.74	1.07	12.61	0.32	1.06	0.542	0.61	51.9
00-CAS- 1174	379.39	1.31	0.34	3.25	13.06	53.3	0.943	9.04	0.47	1.09	0.548	0.88	33.6
00-CAS- 1175	4328.54	0.86	0.32	4.86	11.7	71.74	1.453	18.56	0.48	1.14	0.865	0.95	68.2
00-CAS- 1176	2359.14	0.6	0.64	6.31	15.37	33.93	1.932	13.23	0.23	1.76	1.096	0.79	36.7
00-CAS- 1177	3342.08	0.62	0.46	3.4	11.78	54.09	1.067	17.14	0.36	1.05	0.577	1.21	63.3
00-CAS- 1178	2566.9	0.47	0.28	2.4	10.8	50.17	0.708	19.56	0.27	0.79	0.442	0.57	54.3
00-CAS- 1179	2138.19	0.72	0.51	4.79	13.39	59.5	1.449	18.26	0.33	1.32	0.894	0.85	82.2
00-CAS- 1180	2150.38	0.59	0.58	4.96	11.23	55.42	1.468	14.94	0.25	1.24	0.806	0.72	66.6
00-CAS- 1181	2177.01	0.7	0.52	4.26	11.44	51.36	1.283	13.62	0.27	1.33	0.731	0.62	48.9
00-CAS- 1182	3512.82	0.63	0.65	4.65	14.16	47.66	1.424	15.81	0.28	1.46	0.776	0.7	58.2
00-CAS- 1183	4383.68	1.15	0.49	7.35	15.91	76.03	2.148	23.85	0.52	1.73	1.27	1.27	41.7
00-CAS- 1184	1665.26	1.1	0.85	5.7	14.85	36.89	1.805	13.78	0.27	1.55	1.042	0.75	32.1
00-CAS- 1185	1531.4	0.74	0.59	4.65	14.27	40.85	1.308	10.71	0.22	1.41	0.743	0.25	53.3
00-CAS- 1186	2461.67	0.91	0.32	4.72	14.07	39.19	1.376	12.71	0.28	1.05	0.799	0.25	51.3
00-CAS- 1187	761.18	0.47	0.16	1.5	6.4	25.73	0.44	10.36	0.17	0.46	0.244	0.25	48.8
00-CAS- 1188	925.73	4.5	0.21	3.5	9.79	31.12	1.096	12.49	0.34	0.91	0.649	0.57	36
00-CAS- 1189	1776.6	0.76	0.39	3.46	10.57	54.06	1.053	15.06	0.41	1.07	0.609	0.91	65.5
00-CAS- 1191	2920.59	0.98	0.62	4.84	15	61.3	1.484	18.05	0.37	1.49	0.799	0.89	59.4
00-CAS- 1192	2424.64	0.49	0.43	3.49	11.82	51.34	1.083	17.35	0.33	0.95	0.568	0.63	91.2
00-CAS- 1193	884.04	0.51	0.78	4.36	11.92	22.47	1.328	9.27	0.23	1.26	0.736	0.25	47.8
00-CAS- 1194	1409.6	0.86	0.44	4.33	10.21	50.51	1.343	13.06	0.36	1.16	0.68	0.69	39.7
00-CAS- 1195	131.38	1.28	0.28	4.19	11.42	59.68	1.262	7.44	0.52	0.97	0.692	0.62	23.3
00-CAS- 1196	118.91	0.77	0.3	3.64	6.7	38.8	1.023	6.71	0.57	1.14	0.578	0.55	39.2

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 1158	0.025	0.025	0.06	5	0.05	0.009	0.094	5	0.025	0.73	0.06	35.84	0.43
00-CAS- 1159	0.025	0.103	0.94	15	0.12	0.026	0.303	16	0.025	1.85	0.147	36.6	0.98
00-CAS- 1160	0.025	0.088	0.59	5	0.16	0.03	0.235	5	0.08	2.04	0.171	113.62	0.4
00-CAS- 1161	0.025	0.148	1.31	5	0.08	0.032	0.437	5	0.025	2.4	0.168	26.57	1.14
00-CAS- 1162	0.025	0.566	0.32	5	0.14	0.164	1.173	5	0.025	11.05	0.889	25.04	0.65
00-CAS- 1163	0.025	0.066	0.35	5	0.09	0.016	0.203	5	0.025	1.2	0.104	45.27	0.91
00-CAS- 1166	0.025	0.062	0.52	5	0.08	0.015	0.165	5	0.025	1.35	0.105	31.47	1.04
00-CAS- 1167	0.025	0.095	0.59	5	0.11	0.022	0.294	5	0.025	1.65	0.141	55.65	0.94
00-CAS- 1168	0.025	0.078	0.54	5	0.29	0.029	0.219	5	0.025	1.52	0.124	61.39	0.88
00-CAS- 1169	0.025	0.091	0.78	5	0.12	0.024	0.24	5	0.08	1.78	0.119	79.19	1.51
00-CAS- 1171	0.025	0.088	0.43	5	0.11	0.03	0.247	5	0.07	1.73	0.16	161.3	1.08
00-CAS- 1172	0.025	0.066	0.6	5	0.1	0.016	0.186	5	0.08	1.04	0.095	53.2	1.02
00-CAS- 1173	0.025	0.077	0.6	5	0.11	0.024	0.229	5	0.1	1.39	0.132	206.62	0.77
00-CAS- 1174	0.025	0.087	0.55	5	0.14	0.028	0.299	5	0.08	1.77	0.153	31.3	1.22
00-CAS- 1175	0.025	0.117	0.46	5	0.23	0.027	0.33	5	0.07	2.43	0.206	227.34	0.39
00-CAS- 1176	0.025	0.146	1.1	11	0.13	0.037	0.335	37	0.21	2.46	0.232	134.83	0.92
00-CAS- 1177	0.025	0.081	0.44	5	0.16	0.022	0.265	12	0.14	1.53	0.132	170.34	0.49
00-CAS- 1178	0.025	0.063	0.42	5	0.16	0.018	0.191	5	0.12	1.08	0.092	102.04	0.74
00-CAS- 1179	0.025	0.129	0.93	5	0.17	0.032	0.327	5	0.12	2.28	0.202	100.04	0.81
00-CAS- 1180	0.025	0.113	0.76	5	0.14	0.028	0.305	5	0.1	1.77	0.152	123.11	0.61
00-CAS- 1181	0.025	0.098	0.82	5	0.13	0.022	0.276	23	0.09	1.6	0.138	128.66	0.64
00-CAS- 1182	0.025	0.111	0.72	5	0.15	0.031	0.316	13	0.08	1.83	0.19	239.74	0.67
00-CAS- 1183	0.025	0.187	0.65	5	0.25	0.049	0.478	15	0.11	3.3	0.297	126.69	0.58
00-CAS- 1184	0.025	0.133	1.09	10	0.12	0.032	0.395	41	0.09	2.14	0.214	86.99	0.94
00-CAS- 1185	0.025	0.107	0.86	5	0.09	0.034	0.281	24	0.09	2.12	0.17	211.41	0.78
00-CAS- 1186	0.025	0.13	0.47	5	0.16	0.038	0.299	5	0.08	2.72	0.226	184.16	0.31
00-CAS- 1187	0.025	0.025	0.24	5	0.07	0.014	0.117	5	0.05	0.7	0.067	135.31	0.89
00-CAS- 1188	0.025	0.096	0.26	5	0.11	0.026	0.219	5	0.1	2.09	0.139	93.02	0.67
00-CAS- 1189	0.025	0.084	0.86	5	0.11	0.026	0.279	5	0.09	1.62	0.151	46.9	1.22
00-CAS- 1191	0.025	0.111	0.96	5	0.16	0.026	0.325	13	0.1	1.9	0.155	105.01	0.73
00-CAS- 1192	0.025	0.093	0.46	5	0.13	0.027	0.24	5	0.08	1.88	0.147	130.71	0.56
00-CAS- 1193	0.025	0.107	1.27	5	0.08	0.025	0.286	15	0.08	1.73	0.171	60.95	1.02
00-CAS- 1194	0.025	0.099	0.44	5	0.17	0.025	0.317	5	0.08	1.73	0.128	40.71	0.38
00-CAS- 1195	0.025	0.109	0.43	5	0.12	0.035	0.359	5	0.08	2.2	0.18	37.03	0.77
00-CAS- 1196	0.025	0.109	0.73	5	0.05	0.031	0.307	5	0.07	1.92	0.171	23.66	1.39

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 1197	3.02	2.62	5.61	6463	185	1.5	8551	3	8	14	13	12021	670
00-CAS- 1198	1.76	2.58	2	4573	275	1.5	16509	1	8	7	12	6827	799
00-CAS- 1199	2.88	2.39	1.77	6301	293	1.5	16219	3	10	10	13	8982	872
00-CAS- 1200	2.49	2.92	1.89	6844	394	1.5	22113	4	16	11	13	10573	1000
00-CAS- 1201	1.74	2.97	1.82	5284	377	1.5	22737	4	17	11	17	9506	932
00-CAS- 1202	1.48	2.32	1.76	5615	203	1.5	16574	3	16	8	18	7981	895
00-CAS- 1203	2.2	2.98	2.06	6819	285	1.5	10439	3	12	13	14	11655	885
00-CAS- 1204	1.71	2.4	2.13	5631	197	1.5	9710	2	8	10	12	8448	993
00-CAS- 1251	2.01	0.45	0.69	4109	129	1.5	3627	2	2.5	8	10	8398	557
00-CAS- 1252	2.65	0.45	0.72	3962	175	1.5	6432	2	2.5	8	6	8032	703
00-CAS- 1253	2.8	0.45	0.7	4557	88	1.5	4509	2	2.5	9	7	9510	523
00-CAS- 1254	3.64	1.47	0.86	2639	76	1.5	3575	1	2.5	6	5	7147	1003
00-CAS- 1255	3.23	1.45	1.03	2891	208	1.5	8683	3	11	9	10	8868	1021
00-CAS- 1257	3.29	1.91	1.34	1339	146	1.5	9639	1	11	2	13	4502	715
00-CAS- 1258	2.43	0.45	0.67	4152	92	1.5	5536	3	2.5	7	6	7840	624
00-CAS- 1259	3.36	1.1	1.16	3855	70	1.5	5890	3	2.5	14	9	9272	715
00-CAS- 1260	3.58	1.52	1.37	2667	151	1.5	6905	2	6	9	7	8104	688
00-CAS- 1261	1.78	0.45	0.52	2291	141	1.5	6780	1	2.5	5	8	6169	635
00-CAS- 1262	2.44	0.97	0.64	7092	245	1.5	7961	4	15	16	9	13693	742
00-CAS- 1263	4.31	0.45	0.66	3109	95	1.5	6397	2	2.5	8	7	7789	597
00-CAS- 1264	2.89	1.01	0.84	4708	111	1.5	5118	3	2.5	8	7	9581	698
00-CAS- 1265	5.61	1.86	1.29	3662	85	1.5	5264	3	2.5	7	6	8683	1172
00-CAS- 1266	2.41	1.17	1.14	4837	41	1.5	2115	3	2.5	10	8	9211	620
00-CAS- 1267	2.28	1.19	0.86	3618	185	1.5	7222	3	2.5	6	7	7921	1508
00-CAS- 1268	4.84	1.17	1.35	4325	279	1.5	10556	4	18	10	9	11206	1384
00-CAS- 1269	3.38	1.76	1.4	2958	83	1.5	5979	1	2.5	6	6	6362	587
00-CAS- 1270	2.87	1.63	1.12	3538	130	1.5	5608	2	2.5	9	5	9252	530
00-CAS- 1271	3.15	1.46	1.53	2865	168	1.5	8672	3	8	5	8	7463	830
00-CAS- 1273	2.54	0.91	0.81	3944	116	1.5	4371	2	2.5	7	7	7906	557
00-CAS- 1274	7	0.45	0.88	6319	223	1.5	5457	3	8	16	11	10879	526
00-CAS- 1275	3.21	2.52	1.69	3148	202	1.5	7709	2	6	11	8	7365	1189
00-CAS- 1276	2.84	0.45	0.63	2550	79	1.5	7337	1	2.5	8	6	4619	656
00-CAS- 1401	3.29	1.99	1.92	4297	197	1.5	7743	2	2.5	8	5	7605	561
00-CAS- 1402	2.1	1.23	1.04	3682	150	1.5	3228	1	2.5	8	14	7459	1094
00-CAS- 1403	2.21	1.78	1.75	5255	166	1.5	7814	3	2.5	11	9	12109	729

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 1197	1.5	1783	844	4	128	14	696	1047	1	37	355	48	17.5	1	37
00-CAS- 1198	1.5	2167	1591	4	66	10	838	1412	0.5	63	158	19	17.5	1	34
00-CAS- 1199	3	2392	2473	4	71	12	953	1389	0.5	62	211	24	17.5	1	38
00-CAS- 1200	1.5	2850	4296	4	68	14	890	1391	1	82	221	28	17.5	2	47
00-CAS- 1201	1.5	2373	4079	4	75	15	1016	1580	0.5	75	197	27	17.5	2	86
00-CAS- 1202	1.5	1995	1521	4	72	15	1158	1809	0.5	58	150	21	17.5	1	98
00-CAS- 1203	1.5	2145	1786	4	82	14	741	1035	1	46	300	40	17.5	1	50
00-CAS- 1204	1.5	1758	986	4	73	11	802	1151	1	40	198	25	17.5	1	41
00-CAS- 1251	1.5	891	203	4	50	8	612	879	0.5	20	99	11	17.5	1	51
00-CAS- 1252	1.5	853	930	4	27	7	693	1093	0.5	28	112	12	17.5	1	68
00-CAS- 1253	1.5	1206	251	4	47	9	606	808	0.5	22	167	13	17.5	1	52
00-CAS- 1254	1.5	590	145	4	25	7	641	1003	0.5	17	52	7	17.5	1	40
00-CAS- 1255	1.5	1150	3067	4	27	10	1342	1615	0.5	43	62	9	17.5	1	88
00-CAS- 1257	1.5	1217	1501	4	16	11	1124	1930	0.5	42	34	2	17.5	1	78
00-CAS- 1258	1.5	893	129	4	25	8	710	1033	0.5	28	93	11	17.5	1	70
00-CAS- 1259	1.5	1302	257	4	38	13	730	1207	0.5	23	123	13	17.5	1	59
00-CAS- 1260	1.5	1177	1189	4	28	8	862	1370	0.5	37	121	11	17.5	1	68
00-CAS- 1261	1.5	1042	670	4	22	6	994	1269	0.5	43	113	8	17.5	1	64
00-CAS- 1262	6	2123	2812	4	42	14	893	931	1	45	219	25	17.5	1	114
00-CAS- 1263	1.5	939	302	4	30	9	704	1309	0.5	22	108	10	17.5	1	72
00-CAS- 1264	1.5	901	371	4	28	8	762	1427	0.5	26	90	13	17.5	1	76
00-CAS- 1265	1.5	975	529	4	37	8	1183	1276	0.5	22	111	12	17.5	1	84
00-CAS- 1266	1.5	883	106	4	38	8	516	829	0.5	13	155	18	17.5	1	46
00-CAS- 1267	1.5	979	819	4	49	9	820	1469	0.5	30	70	10	17.5	1	113
00-CAS- 1268	1.5	1296	6104	4	32	13	1054	1566	0.5	41	121	14	17.5	1	113
00-CAS- 1269	1.5	820	1384	4	30	7	810	924	0.5	15	122	12	17.5	1	69
00-CAS- 1270	1.5	800	421	4	32	8	777	1040	0.5	29	92	12	17.5	1	61
00-CAS- 1271	1.5	1059	2114	4	34	12	900	1381	0.5	42	72	8	17.5	1	70
00-CAS- 1273	1.5	771	317	4	34	6	625	1062	0.5	16	62	9	17.5	1	66
00-CAS- 1274	5	1649	1509	4	66	13	671	794	0.5	25	308	23	17.5	1	79
00-CAS- 1275	1.5	1050	1281	4	27	9	1108	1557	0.5	51	71	9	17.5	1	96
00-CAS- 1276	1.5	738	956	4	22	6	959	1437	0.5	22	54	6	17.5	1	92
00-CAS- 1401	1.5	804	71	4	26	9	783	1468	0.5	42	74	11	17.5	2	44
00-CAS- 1402	1.5	1066	37	4	54	10	607	1593	0.5	28	73	11	17.5	1	26
00-CAS- 1403	1.5	1559	182	4	83	10	619	1336	1	30	156	19	17.5	2	51

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 1197	0.07	6336.88	N.M.	184.01	0.16	6772.83	0.439	11.669	6.98	12.54	0.831	13.18
00-CAS- 1198	0.2	4559.05	N.M.	270.5	0.11	13135.3	0.553	6.239	5.74	6	0.876	12.46
00-CAS- 1199	0.17	6760.69	N.M.	284.44	0.15	13783.2	0.763	6.851	5.58	8.96	0.764	13.04
00-CAS- 1200	0.1	7276.8	N.M.	373.46	0.2	19770 2	1.185	10.603	9.98	10.59	1.133	14.01
00-CAS- 1201	0.16	5614.46	N.M.	359.53	0.19	18980.3	1.724	9.95	11.78	9.07	1.213	19.9
00-CAS- 1202	0.05	5972.02	N.M.	207.22	0.15	14332.5	1.165	7.333	14.87	7.59	0.976	18.53
00-CAS- 1203	0.09	6986.85	N.M.	276.33	0.15	9054.18	0.896	10.887	9.68	11.08	1.166	14.41
00-CAS- 1204	0.1	5904.83	N.M.	196.68	0.18	7919.21	0.647	9.607	6.11	8.74	1.025	12.04
00-CAS- 1251	0.26	3962.77	N.M.	128.18	0.05	3233.49	0.488	9.146	1.72	10.24	1.323	9.75
00-CAS- 1252	0.13	4111.97	N.M.	183.34	0.1	6093.97	0.615	9.355	1.86	10.33	1.058	5.99
00-CAS- 1253	0.1	4759.46	N.M.	91.45	0.12	4381.8	0.319	9.295	2.39	11.75	0.952	6.75
00-CAS- 1254	0.21	2739.87	N.M.	78.09	0.05	3466.64	0.353	5.35	1.22	8.58	1.159	5.26
00-CAS- 1255	0.49	2876.35	N.M.	217.28	0.11	8170.62	0.798	6.881	5.48	11.57	1.343	9.66
00-CAS- 1257	0.06	4141	N.M.	95.5	0.14	5030.44	0.533	8.462	2.22	8.68	0.905	5.76
00-CAS- 1258	0.05	4132.39	N.M.	94.88	0.11	5448.51	0.506	7.988	2.16	8.88	0.912	5.62
00-CAS- 1259	0.07	3899.99	N.M.	74.96	0.12	5417.56	0.523	6.58	3.07	17.1	4.527	8.77
00-CAS- 1260	0.08	2695.94	N.M.	158.4	0.12	6247.16	0.483	5.087	3.21	10.94	1.074	7.06
00-CAS- 1261	0.24	2064.43	N.M.	150.09	0.12	5633.45	0.576	5.907	3.18	5.64	1.55	8.74
00-CAS- 1262	0.14	6171.06	N.M.	261.92	0.31	6263.93	0.637	11.946	9.82	14.25	2.263	8.09
00-CAS- 1263	0.07	3034.65	N.M.	98.58	0.12	6041.56	0.592	5.75	1.89	10.33	2.111	7.04
00-CAS- 1264	0.05	4518.27	N.M.	112.5	0.13	4473.27	0.614	8.553	2.35	9.38	0.975	6.85
00-CAS- 1265	0.08	3541.19	N.M.	86.51	0.05	4945.48	0.477	5.518	1.98	8.92	1.089	5.95
00-CAS- 1266	0.07	5032.01	N.M.	43.34	0.05	1979.93	0.498	9.357	1.98	12.32	0.705	8.06
00-CAS- 1267	0.11	3651.11	N.M.	189.36	0.12	6631.17	0.788	8.249	2.38	8.16	1.274	7.4
00-CAS- 1268	0.13	4244.32	N.M.	302.66	0.16	9997.26	0.874	9.099	8	11.96	2.261	8.87
00-CAS- 1269	0.06	2811.24	N.M.	87.32	0.05	5180.08	0.488	6.052	1.66	6.83	0.511	5.82
00-CAS- 1270	0.11	3423.44	N.M.	137.38	0.05	5140.39	0.318	7.458	2.36	11.49	2.294	5.2
00-CAS- 1271	0.18	2905.04	N.M.	177.69	0.15	8433.44	0.674	6.593	4.73	6.99	2.217	8.36
00-CAS- 1273	0.18	3658.39	N.M.	121.79	0.11	3765.13	0.436	8.599	1.17	7.82	1.19	6.85
00-CAS- 1274	0.23	5816.21	N.M.	221.92	0.14	5035.8	0.659	9.963	4.12	17	1.143	10.6
00-CAS- 1275	0.06	2848.58	N.M.	200.47	0.17	6953.42	0.846	7.163	3.77	11.42	1.147	8.16
00-CAS- 1276	0.07	2257.53	N.M.	74.36	0.05	6192.17	0.625	3.79	1.51	8.14	0.681	5.81
00-CAS- 1401	0.04	3861.06	N.M.	191.26	0.16	7167.41	0.612	8.332	1.52	9.21	1.164	5.11
00-CAS- 1402	0.14	3103.37	N.M.	141.37	0.12	2629.52	0.461	7.506	2.33	8.18	1.136	13.47
00-CAS- 1403	0.05	4908.04	N.M.	163.33	0.21	7127.49	0.586	9.444	2.73	11.8	1.009	8.42

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 1197	0.37	0.179	0.197	9614.47	3.16	1.146	0.025	0.16	0.088	6.701	2.87	0.033	1608.41
00-CAS- 1198	0.319	0.142	0.167	5723.3	1.71	0.806	0.025	0.18	0.061	4.664	2.24	0.036	2079.56
00-CAS- 1199	0.292	0.128	0.172	7757.6	2.24	0.767	0.025	0.21	0.063	4.53	3.3	0.036	2403.4
00-CAS- 1200	0.436	0.17	0.254	9298.71	3	1.127	0.025	0.23	0.081	6.224	3.62	0.048	2752.08
00-CAS- 1201	0.409	0.192	0.242	8271.79	2.34	1.083	0.025	0.16	0.09	6.72	3.62	0.039	2292.97
00-CAS- 1202	0.291	0.14	0.157	7007.5	2.14	0.76	0.025	0.19	0.059	4.692	2.99	0.028	2061
00-CAS- 1203	0.367	0.15	0.206	9876.99	3.59	1.108	0.025	0.15	0.085	6.436	3.68	0.029	2127.43
00-CAS- 1204	0.349	0.151	0.186	7226.34	2.69	1.025	0.025	0.18	0.063	6.793	2.53	0.024	1675.77
00-CAS- 1251	0.34	0.144	0.146	7479.03	1.56	0.813	0.025	0.35	0.052	4.62	0.63	0.018	912.23
00-CAS- 1252	0.39	0.168	0.168	7281.33	1.72	0.86	0.025	0.44	0.061	4.393	1.54	0.022	947.06
00-CAS- 1253	0.348	0.129	0.128	8813.16	2.06	0.874	0.025	0.34	0.053	4.605	2.62	0.018	1244.61
00-CAS- 1254	0.22	0.106	0.091	6677.12	1.03	0.526	0.025	0.37	0.04	2.47	0.25	0.011	635.94
00-CAS- 1255	0.243	0.096	0.125	8096.3	1.19	0.639	0.025	0.37	0.041	3.872	1.21	0.018	1232.64
00-CAS- 1257	0.339	0.136	0.133	6865.83	1.58	0.794	0.025	0.29	0.056	4.087	1.2	0.018	942.11
00-CAS- 1258	0.344	0.134	0.131	6769.75	1.52	0.79	0.025	0.3	0.052	3.904	0.84	0.017	803.71
00-CAS- 1259	0.261	0.107	0.101	8442.75	1.54	0.663	0.025	0.34	0.044	3.069	2.34	0.016	1336.98
00-CAS- 1260	0.204	0.085	0.104	7078.52	1.34	0.466	0.025	0.37	0.032	2.515	0.81	0.013	1250.91
00-CAS- 1261	0.235	0.081	0.1	4933.35	1.33	0.521	0.025	0.24	0.035	3.378	1.04	0.012	935.34
00-CAS- 1262	0.389	0.146	0.174	10275.9	2.93	1.024	0.025	0.24	0.061	5.816	8.3	0.022	1872.23
00-CAS- 1263	0.207	0.098	0.094	6759.76	1.2	0.537	0.025	0.27	0.038	2.708	1.29	0.014	844.85
00-CAS- 1264	0.366	0.168	0.141	8080.75	1.68	0.841	0.025	0.48	0.06	4.186	1.06	0.019	878.9
00-CAS- 1265	0.215	0.089	0.086	7516.14	1.41	0.487	0.025	0.21	0.033	2.937	1.56	0.011	962.5
00-CAS- 1266	0.373	0.154	0.124	8452	1.97	0.839	0.025	0.28	0.061	4.477	1.63	0.017	958.07
00-CAS- 1267	0.404	0.198	0.158	6808.71	1.31	0.89	0.025	0.63	0.07	3.993	0.92	0.025	1043.64
00-CAS- 1268	0.361	0.16	0.177	10007.8	1.82	0.846	0.025	0.65	0.061	4.337	1.83	0.025	1207.66
00-CAS- 1269	0.244	0.111	0.102	5289.58	1.38	0.599	0.025	0.24	0.04	3.101	1.02	0.016	732.09
00-CAS- 1270	0.296	0.132	0.131	7931.06	1.63	0.706	0.025	0.38	0.046	3.751	0.86	0.02	798.08
00-CAS- 1271	0.33	0.127	0.138	6642.62	1.2	0.658	0.025	0.36	0.049	3.415	1.2	0.017	1135.55
00-CAS- 1273	0.424	0.177	0.148	6563.57	1.49	0.853	0.025	0.42	0.069	4.226	0.68	0.025	734.39
00-CAS- 1274	0.297	0.125	0.151	9026.99	2.68	0.82	0.025	0.2	0.048	4.364	6.92	0.019	1517.71
00-CAS- 1275	0.288	0.129	0.144	6013.09	1.25	0.653	0.025	0.4	0.047	3.608	0.72	0.019	1034.81
00-CAS- 1276	0.179	0.082	0.073	3580.81	0.66	0.381	0.025	0.26	0.03	1.838	0.64	0.011	699.14
00-CAS- 1401	0.415	0.176	0.167	6218.63	1.55	0.846	0.025	0.38	0.066	4.035	0.89	0.026	749.15
00-CAS- 1402	0.36	0.16	0.151	5676.35	1.27	0.79	0.025	0.48	0.061	3.671	0.8	0.02	903.09
00-CAS- 1403	0.455	0.195	0.195	10107.6	1.93	1.006	0.025	0.49	0.075	4.633	2.44	0.026	1490.66

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 1197	759.86	0.52	0.64	4.57	11.66	29.87	1.411	10.53	0.23	1.24	0.801	0.51	39
00-CAS- 1198	1398.58	0.46	0.39	3.22	9.29	35.44	1.015	11.16	0.32	0.9	0.523	0.52	66.3
00-CAS- 1199	2209.52	0.5	0.51	3	10.97	37.05	0.942	10.34	0.25	1.06	0.534	0.5	63.1
00-CAS- 1200	3754.8	0.68	0.6	4.52	13.36	64.36	1.331	15.72	0.41	1.35	0.798	1.02	86.5
00-CAS- 1201	3564.1	0.52	0.44	4.33	14.36	52.05	1.329	17.44	0.26	1.12	0.724	0.76	79.4
00-CAS- 1202	1430.13	0.55	0.46	2.89	14.15	38.13	0.977	10.62	0.23	0.94	0.555	0.25	62.9
00-CAS- 1203	1657.67	0.59	0.64	4.76	11.95	45.57	1.429	14.31	0.27	1.42	0.79	0.73	50.5
00-CAS- 1204	898.67	0.6	0.48	4.19	9.73	38.19	1.325	12.82	0.39	1.24	0.686	0.89	42
00-CAS- 1251	196.06	0.5	0.3	3.77	6.97	43.36	0.951	5.63	0.55	0.91	0.621	0.8	18.9
00-CAS- 1252	904.41	0.48	0.34	3.91	6.39	55.41	0.966	7.99	0.63	0.94	0.721	0.82	26.3
00-CAS- 1253	247.14	0.47	0.48	3.88	8.06	32.36	0.981	5.49	0.53	0.98	0.666	1.07	21.3
00-CAS- 1254	145.9	0.5	0.2	2.26	5.71	51.37	0.544	8.66	0.64	0.83	0.401	0.75	16.4
00-CAS- 1255	2917.81	0.58	0.23	2.7	8.3	73.4	0.687	12.51	0.56	0.74	0.435	0.79	41.4
00-CAS- 1257	127.09	0.58	0.35	3.55	6.92	54.81	0.883	10.37	0.64	1.01	0.647	1.01	27.8
00-CAS- 1258	124.4	0.52	0.3	3.56	6.98	53.34	0.836	9.93	0.63	0.93	0.605	0.96	27.3
00-CAS- 1259	251.95	0.49	0.37	2.76	12.13	43.68	0.677	11.32	0.47	0.83	0.49	0.68	22.6
00-CAS- 1260	1140.63	0.48	0.31	2.09	6.43	38.43	0.535	9.88	0.51	0.77	0.362	0.78	35.6
00-CAS- 1261	573.67	0.52	0.3	2.37	5.74	47.2	0.619	11.49	0.48	0.68	0.426	0.85	42.8
00-CAS- 1262	2287.61	0.59	0.58	4.44	12.1	53.94	1.129	16.4	0.44	1.18	0.732	0.89	44.9
00-CAS- 1263	283.61	0.44	0.33	2.26	7.23	37.51	0.577	8.88	0.4	0.74	0.384	0.54	21.6
00-CAS- 1264	336.9	0.53	0.36	3.7	6.7	52.97	0.937	8.89	0.59	1.11	0.637	0.78	25.8
00-CAS- 1265	479.79	0.51	0.35	2.3	7.18	37.93	0.588	11.68	0.46	0.78	0.357	0.7	21.2
00-CAS- 1266	106.61	0.51	0.49	3.92	6.75	41.03	0.949	7.44	0.58	0.98	0.703	0.89	12.7
00-CAS- 1267	776.28	0.51	0.28	3.7	8.16	54.38	0.905	17.55	0.62	0.94	0.663	0.72	28.9
00-CAS- 1268	5729.89	0.64	0.38	3.64	11.2	78.36	0.905	19.08	0.59	0.98	0.642	0.79	40.5
00-CAS- 1269	1265.61	0.43	0.29	2.69	5.45	44.49	0.664	5.27	0.36	0.69	0.444	0.25	14.3
00-CAS- 1270	390.73	0.64	0.35	3.21	7.08	59.87	0.807	9.23	0.77	1.01	0.575	1.04	28.6
00-CAS- 1271	1997.5	0.59	0.25	2.91	11.6	57.33	0.704	13.88	0.55	0.91	0.492	0.75	43.3
00-CAS- 1273	280.62	0.61	0.28	3.94	5.43	55.62	0.958	7.24	0.73	1.08	0.714	0.87	16
00-CAS- 1274	1336.71	0.38	0.65	3.54	11.11	34.04	0.897	8.38	0.28	1.06	0.562	0.25	22.7
00-CAS- 1275	1079.59	0.61	0.25	2.99	7.98	59.09	0.735	12.93	0.66	0.9	0.531	0.64	46
00-CAS- 1276	790.04	0.38	0.17	1.65	6.2	36.34	0.41	5.9	0.3	0.61	0.312	0.25	20.2
00-CAS- 1401	65.01	0.54	0.35	3.79	7.76	63.11	0.941	5.42	0.58	1.11	0.677	0.83	40
00-CAS- 1402	30.6	0.57	0.26	3.43	8.14	36.14	0.834	7.32	0.54	1.06	0.62	0.56	25.6
00-CAS- 1403	154.67	0.74	0.4	4.33	8.94	65.85	1.053	7.83	0.51	1.44	0.739	0.88	28.3

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 1197	0.025	0.111	0.57	5	0.09	0.023	0.291	25	0.08	1.91	0.149	38.07	0.76
00-CAS- 1198	0.025	0.082	0.63	5	0.1	0.023	0.214	5	0.06	1.6	0.131	35.09	0.91
00-CAS- 1199	0.025	0.079	0.7	5	0.1	0.022	0.21	13	0.36	1.48	0.11	39.2	0.77
00-CAS- 1200	0.025	0.113	0.74	5	0.18	0.029	0.302	16	0.14	2.09	0.164	50.08	0.76
00-CAS- 1201	0.025	0.114	0.47	5	0.13	0.029	0.249	14	0.08	2.2	0.142	91.87	0.57
00-CAS- 1202	0.025	0.077	0.32	5	0.08	0.025	0.222	10	0.11	1.57	0.116	103.23	0.45
00-CAS- 1203	0.025	0.111	0.77	5	0.13	0.024	0.275	25	0.08	1.87	0.158	53.03	0.72
00-CAS- 1204	0.025	0.104	0.6	5	0.11	0.02	0.281	11	0.1	1.71	0.127	43.03	0.41
00-CAS- 1251	0.025	0.072	0.48	5	0.1	0.016	0.491	5	0.12	1.5	0.125	48.99	0.65
00-CAS- 1252	0.025	0.079	0.54	5	0.15	0.019	0.404	5	0.12	1.7	0.142	67.73	0.66
00-CAS- 1253	0.025	0.075	0.58	5	0.1	0.02	0.497	5	0.11	1.5	0.12	51.41	0.72
00-CAS- 1254	0.025	0.025	0.47	5	0.1	0.011	0.14	5	0.1	1	0.09	40.18	1.01
00-CAS- 1255	0.025	0.053	0.36	5	0.21	0.015	0.197	5	0.15	1.2	0.093	88.06	0.66
00-CAS- 1257	0.025	0.074	0.63	5	0.08	0.016	0.266	5	0.12	1.51	0.128	73.04	0.85
00-CAS- 1258	0.025	0.073	0.58	5	0.07	0.018	0.259	5	0.09	1.44	0.122	71.43	0.73
00-CAS- 1259	0.025	0.055	0.51	5	0.14	0.016	0.214	5	0.12	1.15	0.097	59.74	0.77
00-CAS- 1260	0.025	0.025	0.49	5	0.1	0.011	0.175	5	0.12	0.86	0.069	68.91	0.69
00-CAS- 1261	0.025	0.025	0.31	5	0.1	0.01	0.262	5	0.09	0.96	0.078	68.48	0.44
00-CAS- 1262	0.025	0.082	0.5	5	0.21	0.02	0.547	5	0.13	1.64	0.122	118.49	0.65
00-CAS- 1263	0.025	0.025	0.54	5	0.09	0.013	0.175	5	0.16	1	0.08	73.67	0.92
00-CAS- 1264	0.025	0.079	0.74	5	0.1	0.02	0.263	5	0.12	1.68	0.129	78.38	1.23
00-CAS- 1265	0.025	0.025	0.32	5	0.07	0.011	0.186	5	0.09	0.89	0.075	86.95	0.63
00-CAS- 1266	0.025	0.074	0.64	5	0.09	0.019	0.292	15	0.1	1.55	0.127	45.96	0.8
00-CAS- 1267	0.025	0.081	0.5	5	0.2	0.023	0.276	5	0.1	1.88	0.162	114.28	0.93
00-CAS- 1268	0.025	0.079	0.48	5	0.33	0.018	0.279	5	0.11	1.69	0.137	117.13	0.59
00-CAS- 1269	0.025	0.059	0.37	5	0.08	0.013	0.194	5	0.07	1.09	0.097	70.05	0.42
00-CAS- 1270	0.025	0.066	0.56	5	0.1	0.017	0.22	5	0.16	1.3	0.111	62.18	0.93
00-CAS- 1271	0.025	0.063	0.67	5	0.16	0.018	0.224	5	0.11	1.34	0.115	74.18	1.23
00-CAS- 1273	0.025	0.087	0.68	5	0.1	0.021	0.267	5	0.09	1.95	0.151	67.17	1.19
00-CAS- 1274	0.025	0.063	0.35	5	0.15	0.015	0.269	5	0.14	1.3	0.101	78.66	0.51
00-CAS- 1275	0.025	0.065	0.38	5	0.13	0.018	0.196	5	0.14	1.35	0.1	95.85	0.84
00-CAS- 1276	0.025	0.025	0.26	5	0.08	0.012	0.124	5	0.11	0.83	0.067	92.83	0.62
00-CAS- 1401	0.025	0.078	0.69	5	0.15	0.021	0.267	5	0.1	1.92	0.159	43.9	1.22
00-CAS- 1402	0.025	0.073	0.83	5	0.08	0.02	0.252	5	0.71	1.65	0.134	23.99	1.45
00-CAS- 1403	0.025	0.095	0.82	5	0.18	0.027	0.304	5	0.24	2.15	0.167	51.1	1.3

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 1404	2.82	4.73	4.2	3919	184	1.5	6804	2	2.5	28	11	7920	699
00-CAS- 1405	2.44	1.63	1.14	2132	133	1.5	3905	1	2.5	8	5	5167	363
00-CAS- 1406	2.88	1.9	1.45	2413	78	1.5	3380	1	2.5	5	6	5411	700
00-CAS- 2001	1.72	1.05	1.2	28156	75	1.5	3201	7	19	33	29	37250	354
00-CAS- 2004	0.45	0.45	1.22	21508	56	1.5	2603	6	13	29	21	33039	349
00-CAS- 2005	1.19	1.69	1.34	23809	60	1.5	3796	7	16	30	44	33281	439
00-CAS- 2006	0.96	1.69	1.83	23272	88	1.5	3638	7	17	34	28	33272	395
00-CAS- 2007	1.18	8.26	3.97	31493	63	1.5	2618	7	17	117	25	32914	406
00-CAS- 2008	1.03	3.34	2.22	26144	46	1.5	3703	8	17	97	37	39092	458
00-CAS- 2009	1.36	1.66	1.52	25404	54	1.5	3283	8	15	35	36	37200	498
00-CAS- 2011	0.92	1.75	1.43	22647	50	1.5	4763	6	12	28	40	27595	436
00-CAS- 2012	0.45	1.93	1.52	28965	53	1.5	4084	7	16	34	43	33283	458
00-CAS- 2013	0.45	2.37	1.13	30952	44	1.5	2308	7	13	48	39	33270	310
00-CAS- 2014	1.39	1.86	1.56	26782	74	1.5	3732	7	17	33	34	32685	420
00-CAS- 2015	1.08	2.66	1.16	27332	56	1.5	3250	6	14	38	39	31304	370
00-CAS- 2016	1.5	1.99	1.23	25835	50	1.5	3912	8	13	45	30	39062	443
00-CAS- 2017	1.15	2.59	2.45	28112	147	1.5	7713	9	22	40	99	45064	817
00-CAS- 2018	0.45	1.69	1.66	29365	113	1.5	4924	7	18	37	32	35109	730
00-CAS- 2019	0.45	1.07	1.17	33549	76	1.5	3909	7	18	34	38	35088	474
00-CAS- 2020	0.45	3.09	2.01	32338	82	1.5	3907	8	21	39	36	39025	677
00-CAS- 2021	0.45	2.25	1.2	32542	75	1.5	3497	7	19	33	53	37524	512
00-CAS- 2022	2.04	2.96	1.98	30193	78	1.5	5272	7	22	35	66	34237	627
00-CAS- 2023	1.71	3.64	2.33	23525	77	1.5	6277	7	18	33	42	32001	617
00-CAS- 2024	0.45	1.02	1.35	26412	81	1.5	4034	7	18	34	27	33192	529
00-CAS- 2025	1.6	2.38	1.76	22957	63	1.5	3615	7	18	30	37	33967	486
00-CAS- 2026	0.45	1.47	0.77	30895	70	1.5	2123	6	12	29	31	31384	444
00-CAS- 2027	0.93	1.97	1.12	32455	63	1.5	1932	7	13	41	45	34819	421
00-CAS- 2029	0.45	1.65	1.3	30319	51	1.5	2984	7	16	34	42	33388	405
00-CAS- 2030	0.95	0.98	1.35	23843	69	1.5	3634	8	17	32	39	38184	488
00-CAS- 2031	0.45	1.14	1.62	25526	81	1.5	4297	7	17	32	25	31745	480
00-CAS- 2032	0.45	2.45	2.34	23032	86	1.5	4924	6	16	31	42	30089	445
00-CAS- 2051	2.48	3.29	2.31	31220	56	1.5	5669	8	20	40	42	34118	453
00-CAS- 2052	0.99	1.56	1.82	29640	94	1.5	4784	7	19	37	46	33295	526
00-CAS- 2053	1.09	1.66	2.27	30801	56	1.5	5440	8	18	34	32	32747	459
00-CAS- 2054	0.45	0.45	1.16	26546	53	1.5	3057	8	15	30	18	36087	396

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 1404	1.5	1569	238	4	48	14	719	1278	0.5	34	131	14	17.5	1	48
00-CAS- 1405	1.5	514	61	4	26	7	547	1347	0.5	26	58	6	17.5	1	28
00-CAS- 1406	1.5	927	36	4	27	8	630	1591	0.5	23	55	7	17.5	1	62
00-CAS- 2001	17	6542	137	4	536	43	303	128	3	14	1193	116	17.5	3	33
00-CAS- 2004	14	5567	124	4	405	31	214	106	2	10	1250	114	17.5	3	28
00-CAS- 2005	13	6144	141	4	588	38	361	138	3	14	1276	119	17.5	4	33
00-CAS- 2006	15	7687	170	4	615	39	297	85	2	15	1383	115	17.5	3	31
00-CAS- 2007	20	5664	115	4	291	74	594	230	3	9	911	84	17.5	4	36
00-CAS- 2008	18	6800	154	4	570	68	596	205	3	12	1255	132	17.5	4	37
00-CAS- 2009	17	6508	236	4	413	37	980	247	3	12	1051	122	17.5	4	58
00-CAS- 2011	13	6603	122	4	658	39	649	193	3	13	998	97	17.5	6	30
00-CAS- 2012	14	6994	223	4	438	57	749	278	3	15	954	109	17.5	4	45
00-CAS- 2013	15	5707	101	4	352	54	637	223	4	8	912	99	17.5	4	39
00-CAS- 2014	14	6552	201	4	635	39	648	178	3	12	1086	111	17.5	4	36
00-CAS- 2015	17	7207	146	4	412	48	725	187	3	10	925	87	17.5	4	37
00-CAS- 2016	16	6696	192	4	452	38	1295	293	3	11	936	124	17.5	5	43
00-CAS- 2017	12	8272	566	4	1293	53	1054	134	4	23	1713	224	17.5	7	60
00-CAS- 2018	19	9195	391	4	689	44	624	135	4	21	1161	108	17.5	5	45
00-CAS- 2019	15	7834	151	4	658	41	642	149	3	18	1073	107	17.5	4	34
00-CAS- 2020	22	9194	191	4	592	47	360	90	4	22	1413	114	17.5	5	44
00-CAS- 2021	17	6204	166	4	448	40	591	219	3	14	1125	122	17.5	5	42
00-CAS- 2022	14	9007	191	4	911	49	578	147	3	19	1159	120	17.5	6	36
00-CAS- 2023	12	8906	263	4	1077	39	710	92	3	19	1205	127	17.5	7	34
00-CAS- 2024	13	7467	242	4	642	40	496	102	4	16	1194	107	17.5	5	34
00-CAS- 2025	11	6391	240	4	549	36	756	164	3	11	1158	119	17.5	4	40
00-CAS- 2026	15	3408	133	4	196	24	854	286	3	11	767	82	17.5	3	61
00-CAS- 2027	15	4438	106	4	229	36	606	287	3	9	860	97	17.5	3	46
00-CAS- 2029	14	6998	148	4	516	36	502	277	3	10	1059	102	17.5	4	36
00-CAS- 2030	16	6168	169	4	532	36	648	168	3	13	1106	128	17.5	4	44
00-CAS- 2031	13	7104	167	4	669	36	511	133	3	17	1027	102	17.5	4	30
00-CAS- 2032	13	7736	191	4	717	34	663	102	3	19	1017	100	17.5	6	32
00-CAS- 2051	10	8971	176	4	993	51	556	302	3	14	949	131	17.5	4	39
00-CAS- 2052	16	9747	148	4	881	47	338	184	3	13	1017	108	17.5	4	40
00-CAS- 2053	14	10450	155	4	1100	46	403	209	3	13	1043	127	17.5	4	35
00-CAS- 2054	17	6872	112	4	546	32	328	208	2	9	1119	113	17.5	3	42

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 1404	0.06	3496.07	N.M.	178.94	0.16	5846.96	0.642	6.368	2.26	27.11	1.017	10.51
00-CAS- 1405	0.02	1897.67	N.M.	131.35	0.05	3399.84	0.387	4.301	1.39	9.28	0.596	5.51
00-CAS- 1406	0.02	2111.17	N.M.	74.63	0.11	3008.11	0.608	4.727	2.42	6	0.607	5.58
00-CAS- 2001	0.1	26788.5	N.M.	76.64	0.7	2889.44	0.394	19.425	16.72	35.18	1.238	27.78
00-CAS- 2004	0.01	21544.9	N.M.	58.25	0.64	2034.29	0.12	16.73	11.28	31.26	1.269	18.56
00-CAS- 2005	0.01	21236.1	N.M.	58.36	0.72	2855.19	0.082	20.92	13.07	30.63	1.107	39.72
00-CAS- 2006	0.01	21347.7	N.M.	81.47	0.15	2588.78	0.025	17.196	13.06	33.11	1.078	22.83
00-CAS- 2007	0.01	28560.8	N.M.	64.89	0.72	1710.98	0.025	19.184	13.2	110.64	1.786	20.35
00-CAS- 2008	0.01	25932.8	N.M.	41.84	0.73	2641.22	0.025	20.193	13.59	99.33	1.475	32.94
00-CAS- 2009	0.01	23692.7	N.M.	49.98	0.43	2419	0.025	19.346	11.28	37.86	1.469	33.15
00-CAS- 2011	0.01	20296	N.M.	42.72	0.25	3210.07	0.025	23.599	8.69	28.27	0.896	33.1
00-CAS- 2012	0.01	27493.9	N.M.	49.34	0.68	2885.11	0.025	21.754	12.17	32.93	1.394	37.95
00-CAS- 2013	0.04	30746	N.M.	42.72	0.61	2065.41	0.396	23.959	10.44	48.63	1.048	36.64
00-CAS- 2014	0.01	27759.8	N.M.	78.71	0.57	2636.81	0.088	20.123	14.87	36.54	0.977	30.9
00-CAS- 2015	0.01	30189.7	N.M.	52.88	1.19	2783.08	0.025	20.146	12.03	43.12	1.119	38.44
00-CAS- 2016	0.01	22669.6	N.M.	45.12	0.46	2447.11	0.061	18.39	9.25	42.56	0.988	23.01
00-CAS- 2017	0.01	25649.6	N.M.	144.13	0.3	5941.61	0.025	43.103	17.8	39.29	0.457	88.68
00-CAS- 2018	0.01	28165.3	N.M.	106.85	0.32	3641.95	0.025	30.956	14.51	37.44	0.87	25.27
00-CAS- 2019	0.01	34342.6	N.M.	72.78	0.49	3064.36	0.025	18.4	14.22	34.45	0.8	32.12
00-CAS- 2020	0.06	33321.5	N.M.	79.06	0.46	3335.31	0.389	27.351	16.6	39.04	0.894	30.24
00-CAS- 2021	0.01	31751.1	N.M.	71.26	0.92	2567.78	0.053	24.307	14.75	31.52	1.623	43.92
00-CAS- 2022	0.01	32761.8	N.M.	74.88	0.54	4501.05	0.025	27.384	18.96	35.33	1.025	60.93
00-CAS- 2023	0.01	22075.1	N.M.	72.68	0.05	4766.67	0.025	47.909	12.65	31.1	0.511	33.08
00-CAS- 2024	0.01	28385.2	N.M.	77.66	0.64	3400.68	0.025	24.224	13.93	35.3	1.029	22.69
00-CAS- 2025	0.01	26699.4	N.M.	63.18	0.8	3002.58	0.025	19.543	15.6	31.75	1.678	33.44
00-CAS- 2026	0.2	28199.7	N.M.	71.26	0.81	1993.89	0.344	22.189	9.11	29.2	2.554	31.43
00-CAS- 2027	0.05	29549.2	N.M.	61.88	0.58	1111.06	0.073	20.444	9.89	39.72	2.225	44.25
00-CAS- 2029	0.01	28030	N.M.	49.61	0.76	2040.41	0.025	20.496	12.72	34.1	1.367	43
00-CAS- 2030	0.01	19611.3	N.M.	66.16	0.2	1863.52	0.025	18.109	11.97	27.42	1.059	35.38
00-CAS- 2031	0.01	25327	N.M.	82.31	0.49	3118.72	0.025	22.776	13.74	32.65	0.865	25.45
00-CAS- 2032	0.01	21339.2	N.M.	83.1	0.35	3593.21	0.025	32.039	12.88	30.04	0.607	41.7
00-CAS- 2051	0.01	28894	N.M.	56.16	0.19	4115.89	0.025	16.251	16.69	39.75	1.188	42.84
00-CAS- 2052	0.1	27422.3	N.M.	90.34	0.31	3201.22	0.025	18.786	15.09	34.54	1.389	43.78
00-CAS- 2053	0.12	30132.2	N.M.	58.76	0.48	3983.37	0.059	17.846	14.69	33.72	1.189	31.22
00-CAS- 2054	0.1	27598.9	N.M.	52.38	0.7	2113.69	0.06	14.206	12.51	31.83	1.585	18.93

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 1404	0.288	0.115	0.125	6487.09	1.57	0.638	0.025	0.29	0.049	2.95	1.58	0.02	1422.06
00-CAS- 1405	0.216	0.095	0.089	4278.99	0.84	0.468	0.025	0.39	0.036	2.077	0.5	0.015	516.03
00-CAS- 1406	0.224	0.103	0.089	4329.56	0.85	0.5	0.025	0.35	0.037	2.388	0.25	0.012	878.28
00-CAS- 2001	0.727	0.395	0.244	29355.4	5.13	1.012	0.12	0.06	0.183	8.86	19.43	0.054	6190.44
00-CAS- 2004	0.589	0.381	0.21	26491.3	5.39	0.786	0.11	0.025	0.109	8.042	18.23	0.047	5469.56
00-CAS- 2005	0.815	0.159	0.258	26287.6	5.29	1.2	0.08	0.08	0.121	9.094	14.6	0.035	5507.7
00-CAS- 2006	0.709	0.282	0.222	24475.3	4.42	1.032	0.12	0.025	0.122	7.41	15.96	0.054	6820.08
00-CAS- 2007	0.815	0.404	0.225	25471	4.86	1.485	0.09	0.08	0.112	8.967	20.78	0.043	5194.16
00-CAS- 2008	0.814	0.321	0.181	30246.2	4.98	1.131	0.025	0.025	0.135	9.049	20.28	0.047	6607.72
00-CAS- 2009	0.854	0.403	0.273	29644.8	5.48	1.191	0.025	0.025	0.123	8.777	18.98	0.056	6310.51
00-CAS- 2011	0.936	0.62	0.295	20674.6	3.97	1.716	0.025	0.08	0.262	10.979	13.12	0.049	6111.79
00-CAS- 2012	0.977	0.449	0.226	24719.5	4.69	1.29	0.025	0.025	0.149	8.991	15.07	0.033	6511.71
00-CAS- 2013	0.972	0.38	0.426	25962.2	5.14	1.613	0.025	0.025	0.213	11.959	17.41	0.036	5941.13
00-CAS- 2014	0.956	0.487	0.21	27264.4	4.97	1.29	0.025	0.025	0.133	9.028	15.94	0.052	6689.88
00-CAS- 2015	0.984	0.583	0.302	28170.3	5.22	1.171	0.025	0.025	0.2	9.833	20.76	0.025	8053.84
00-CAS- 2016	1.014	0.505	0.31	29106	4.74	1.353	0.025	0.12	0.128	8.837	16.3	0.041	5859.07
00-CAS- 2017	1.49	0.776	0.309	38379.1	5.66	1.84	0.025	0.025	0.21	10.529	13.05	0.049	7805.67
00-CAS- 2018	1.006	0.528	0.28	28966.8	5.22	1.585	0.025	0.06	0.15	9.724	20.22	0.039	8489.65
00-CAS- 2019	0.795	0.312	0.167	28794.9	5.17	0.957	0.025	0.025	0.141	7.444	16.35	0.051	8177.59
00-CAS- 2020	1.183	0.456	0.373	33016.1	5.62	1.622	0.025	0.06	0.155	11.203	23.06	0.042	9125.4
00-CAS- 2021	1.028	0.465	0.322	29092.8	5.5	1.296	0.025	0.025	0.183	11.61	17.66	0.034	6025.86
00-CAS- 2022	1.15	0.51	0.363	31014.4	4.99	1.568	0.11	0.025	0.194	10.113	16.46	0.033	9661.23
00-CAS- 2023	1.409	0.676	0.347	26475	3.84	2.178	0.025	0.1	0.229	12.164	10.88	0.051	8291.86
00-CAS- 2024	0.902	0.565	0.225	30658.5	4.79	1.349	0.05	0.12	0.187	9.225	16.16	0.039	7881.76
00-CAS- 2025	0.867	0.48	0.248	31922.9	5.15	1.041	0.025	0.025	0.145	8.218	16.61	0.017	7211.36
00-CAS- 2026	0.888	0.345	0.366	25646.7	6.05	1.591	0.025	0.025	0.161	10.951	15.99	0.049	3114.61
00-CAS- 2027	0.79	0.371	0.309	28434.7	6.23	1.2	0.08	0.025	0.127	10.024	16.27	0.047	3968.48
00-CAS- 2029	0.922	0.446	0.314	28569.8	5.09	1.427	0.025	0.025	0.173	9.897	16.69	0.07	6403.77
00-CAS- 2030	0.779	0.33	0.2	29067.5	5.06	1.12	0.06	0.025	0.121	8.341	15.58	0.052	4915.01
00-CAS- 2031	1.056	0.492	0.257	29061.2	4.96	1.456	0.07	0.025	0.148	9.212	16.28	0.055	7020.63
00-CAS- 2032	1.192	0.533	0.305	26228.2	4.35	1.813	0.09	0.025	0.22	10.446	14.64	0.064	7105.25
00-CAS- 2051	0.941	0.441	0.238	29998.4	4.88	1.04	0.2	0.025	0.17	5.739	14.19	0.054	8160.37
00-CAS- 2052	0.831	0.418	0.257	27258	4.64	1.066	0.08	0.025	0.148	7.303	15.41	0.048	8766.69
00-CAS- 2053	0.915	0.415	0.228	27353.1	4.65	1.067	0.16	0.025	0.14	6.294	13.91	0.057	9757.46
00-CAS- 2054	0.623	0.267	0.203	32018	6.28	0.926	0.12	0.025	0.128	6.718	19.96	0.037	7198.37

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 1404	207.52	0.44	0.34	2.71	12.64	48.34	0.685	6.07	0.43	0.88	0.483	0.59	30.8
00-CAS- 1405	55.09	0.38	0.2	1.83	6.68	34.34	0.468	3.49	0.32	0.7	0.372	0.25	24.9
00-CAS- 1406	29.96	0.44	0.2	2.13	5.93	34.66	0.526	6.06	0.39	0.75	0.377	0.52	21.3
00-CAS- 2001	126.76	0.34	1.4	7.83	42.97	4.36	2.097	6.22	1	2.76	1.6	0.76	16.8
00-CAS- 2004	109.08	0.24	1.24	6.86	28.84	3.93	1.739	7.61	0.27	2.21	1.02	0.25	10.6
00-CAS- 2005	122.72	0.22	1.4	7.44	34.4	4.77	1.931	7.62	0.1	2.25	1.266	1.03	14.3
00-CAS- 2006	132.68	0.05	1.05	6.97	34.6	3.01	1.64	7.47	0.07	2	1.201	0.25	13
00-CAS- 2007	94.07	0.46	1.76	8.02	69.94	5	2.058	7.08	0.11	3.35	1.522	0.51	7.5
00-CAS- 2008	125.47	1.09	1.64	8.08	67.55	5.33	2.11	6.12	0.07	3.05	1.634	0.25	11.1
00-CAS- 2009	181.52	0.63	1.35	8	35.87	4.8	1.938	9.77	0.1	2.35	1.034	0.25	10.2
00-CAS- 2011	89.88	0.17	1.12	10.72	35.71	3.31	2.617	5.05	0.06	2.43	1.876	0.25	11.5
00-CAS- 2012	164.76	0.31	1.16	7.21	53.84	3.48	1.968	6.72	0.025	2.69	1.279	0.25	12.7
00-CAS- 2013	83.85	0.4	1.31	10.62	52.32	4.14	2.564	3.95	0.83	3.7	1.702	0.25	7.9
00-CAS- 2014	174.87	0.32	1.25	7.94	38.23	3.37	1.834	5.42	0.18	3.12	1.283	0.25	9.9
00-CAS- 2015	128.45	0.45	1.46	9.32	50.33	3.46	2.204	5.64	0.08	3.46	1.677	0.25	9.1
00-CAS- 2016	149.24	0.53	1.32	8.18	31.31	4.44	1.837	5.81	0.1	2.45	1.398	0.25	8.3
00-CAS- 2017	484.8	0.32	0.67	9.86	48.95	3.28	2.667	9.22	0.11	3.43	1.644	1	21.7
00-CAS- 2018	354.01	0.18	0.74	9.38	39	3.33	2.35	14.42	0.13	3.81	1.364	0.25	17.8
00-CAS- 2019	124.88	0.05	0.95	7.06	37.94	3.33	1.827	6.86	0.06	3.09	1.141	0.25	16.8
00-CAS- 2020	166.77	0.23	0.75	9.95	41.86	4.48	2.576	10.62	0.86	4.42	1.559	0.55	22.4
00-CAS- 2021	129.69	0.29	1.08	10.22	33.76	5.6	2.54	8.84	0.14	2.77	1.756	0.25	11.3
00-CAS- 2022	166.72	0.18	0.82	9.98	49.1	2.91	2.347	8.14	0.06	3.3	1.782	0.25	15.5
00-CAS- 2023	211.38	0.05	0.51	12.49	31.63	2.37	2.82	7.33	0.08	2.85	2.272	0.25	16.8
00-CAS- 2024	245.24	0.05	0.87	8.72	34.4	3.52	2.261	9.89	0.26	3.64	1.378	0.25	15.7
00-CAS- 2025	228.15	0.17	1.25	8.7	31.88	3.67	1.833	7.85	0.08	2.61	1.44	0.25	9.7
00-CAS- 2026	122.39	0.95	1.54	10.29	21.08	7.18	2.687	7.18	0.82	2.93	2.008	0.56	12.7
00-CAS- 2027	87.4	0.88	1.29	8.72	31.28	6.5	2.308	6.04	0.24	2.81	1.688	0.25	8.3
00-CAS- 2029	126.31	0.44	0.95	8.88	31.07	3.97	2.266	4.71	0.11	3.76	1.561	0.25	8.7
00-CAS- 2030	127.92	0.46	0.84	7.52	28.93	4.39	2.024	6.69	0.025	2.33	1.41	0.54	10
00-CAS- 2031	147.88	0.37	0.7	8.82	34.31	3.25	2.241	7.95	0.06	3.11	1.704	0.25	16.5
00-CAS- 2032	157.1	0.26	0.53	10.24	30.43	2.75	2.502	6.65	0.025	2.8	1.86	0.25	18.7
00-CAS- 2051	142.79	0.47	0.5	6.6	48.51	3.54	1.391	7.95	0.025	3.46	1.035	0.25	12.1
00-CAS- 2052	128.4	0.5	0.68	6.66	40.73	3.68	1.823	9.77	0.025	2.82	1.372	0.25	11.2
00-CAS- 2053	124.97	0.65	0.88	5.93	41.1	3.21	1.59	7.15	0.21	3.08	1.216	0.25	11.3
00-CAS- 2054	102.27	0.73	1.68	5.88	29.29	4.8	1.583	8.17	0.15	2.76	1.102	0.58	7.7

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 1404	0.025	0.058	0.5	5	0.17	0.016	0.21	5	0.12	1.3	0.103	46.76	0.75
00-CAS- 1405	0.025	0.025	0.39	5	0.05	0.013	0.176	5	0.07	0.98	0.082	29.24	0.71
00-CAS- 1406	0.025	0.025	0.52	5	0.05	0.012	0.171	5	0.08	1.03	0.087	61.86	0.84
00-CAS- 2001	0.025	0.189	2.52	5	0.07	0.074	0.515	119.05	0.58	3.81	0.346	32.5	6.19
00-CAS- 2004	0.025	0.146	2.31	5	0.07	0.044	0.3	114.24	0.2	2.54	0.173	23.88	5.49
00-CAS- 2005	0.025	0.184	2.8	5	0.09	0.026	0.311	118.36	0.17	3.63	0.366	25.18	5.37
00-CAS- 2006	0.025	0.13	2.44	5	0.06	0.029	0.26	98.64	0.09	2.95	0.257	24.51	6.68
00-CAS- 2007	0.025	0.169	3.04	5	0.07	0.04	0.409	80.39	0.16	3.58	0.229	29.75	6.05
00-CAS- 2008	0.025	0.165	2.97	5	0.08	0.035	0.357	119.19	0.27	3.78	0.197	30.74	6.52
00-CAS- 2009	0.025	0.139	2.42	5	0.06	0.042	0.326	117.99	0.15	3.33	0.221	54.5	2.62
00-CAS- 2011	0.025	0.219	2.74	5	0.09	0.058	0.331	90.96	0.14	5.27	0.414	23.96	2.84
00-CAS- 2012	0.025	0.177	2.5	5	0.07	0.048	0.36	96.88	0.06	3.92	0.285	35.71	3.58
00-CAS- 2013	0.025	0.199	2.78	5	0.07	0.041	0.567	93.14	0.51	4.86	0.388	37.22	2.55
00-CAS- 2014	0.025	0.158	2.77	5	0.06	0.032	0.348	115.07	0.2	4.18	0.366	31.44	4.75
00-CAS- 2015	0.025	0.168	2.66	5	0.06	0.04	0.344	102.94	0.2	4.56	0.299	33.52	4.09
00-CAS- 2016	0.025	0.134	2.5	5	0.07	0.047	0.44	113.04	0.35	3.91	0.386	32.88	3.13
00-CAS- 2017	0.025	0.221	4.16	5	0.06	0.046	0.355	208.98	0.13	6.01	0.559	50.02	5.02
00-CAS- 2018	0.025	0.178	3.2	5	0.08	0.047	0.388	117.54	0.14	4.63	0.452	34.92	4.96
00-CAS- 2019	0.025	0.156	2.95	5	0.06	0.04	0.297	106.47	0.1	3.62	0.257	25.96	4.91
00-CAS- 2020	0.025	0.183	3.5	5	0.09	0.056	0.553	118.55	0.46	5.06	0.411	38.99	7.42
00-CAS- 2021	0.025	0.185	3.68	5	0.1	0.053	0.492	117.91	0.23	4.04	0.392	32.19	4.62
00-CAS- 2022	0.025	0.221	3.07	5	0.06	0.067	0.385	133.68	0.07	5.34	0.39	27.86	7.46
00-CAS- 2023	0.025	0.231	3.83	5	0.06	0.095	0.49	131.77	0.45	6.31	0.438	25.29	7.19
00-CAS- 2024	0.025	0.136	3.09	5	0.08	0.05	0.354	126.79	0.18	4.58	0.406	29.46	7.7
00-CAS- 2025	0.025	0.155	2.71	5	0.025	0.038	0.361	140.53	0.19	3.98	0.335	34.58	5.26
00-CAS- 2026	0.025	0.174	2.68	5	0.1	0.057	0.601	78.94	0.53	3.65	0.328	59.64	3
00-CAS- 2027	0.025	0.166	3.29	5	0.1	0.042	0.44	87.92	0.18	3.11	0.344	39.87	4.67
00-CAS- 2029	0.025	0.204	3.13	5	0.09	0.048	0.454	102.41	0.13	4.27	0.343	28.82	4.66
00-CAS- 2030	0.025	0.144	2.61	5	0.06	0.039	0.286	109.19	0.07	3.1	0.298	32.64	4.15
00-CAS- 2031	0.025	0.2	2.9	5	0.07	0.057	0.288	103.28	0.025	4.3	0.366	24.45	4.7
00-CAS- 2032	0.025	0.241	2.99	5	0.07	0.074	0.272	102.52	0.05	5.22	0.358	24.07	4.97
00-CAS- 2051	0.025	0.164	2.14	5	0.025	0.053	0.223	138.12	0.025	4.07	0.477	31.07	7.01
00-CAS- 2052	0.025	0.155	2.69	5	0.05	0.054	0.227	101.66	0.025	3.59	0.317	28.64	6.28
00-CAS- 2053	0.025	0.188	2.22	5	0.05	0.053	0.265	130.35	0.18	3.68	0.349	27.89	5.76
00-CAS- 2054	0.025	0.152	2.09	5	0.06	0.03	0.152	127.17	0.17	2.7	0.3	37	5.16

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 2055	1.69	1.92	1.83	30974	51	1.5	5184	8	19	39	37	37426	372
00-CAS- 2056	3	2.56	2.09	25998	72	1.5	6790	7	18	42	83	32510	456
00-CAS- 2057	1.15	1.48	1.39	26388	58	1.5	4309	7	17	32	25	30831	482
00-CAS- 2058	0.45	1.06	1.82	27796	61	1.5	4570	8	18	35	26	39484	471
00-CAS- 2059	1.02	1.61	1.8	30764	64	1.5	4967	8	21	40	39	36445	470
00-CAS- 2060	1.15	2.37	1.86	29135	64	1.5	5031	7	18	34	47	31173	500
00-CAS- 2061	1.27	1.42	2.37	22237	77	1.5	3065	9	17	55	17	46818	675
00-CAS- 2062	1.04	2.22	1.73	32492	59	1.5	5465	8	20	36	36	32904	566
00-CAS- 2063	0.45	2.08	1.54	29510	59	1.5	4684	8	18	40	37	37118	514
00-CAS- 2066	1.03	2.12	2.44	29735	50	1.5	5354	8	19	35	39	33738	566
00-CAS- 2067	0.45	1.06	1.51	24949	98	1.5	3932	8	17	33	22	37419	605
00-CAS- 2068	4.39	1.04	1.4	31165	71	1.5	4620	8	20	38	26	34787	495
00-CAS- 2069	0.45	1.03	1.16	27440	83	1.5	3813	7	19	37	20	35229	651
00-CAS- 2070	0.45	1.81	1.39	25247	89	1.5	5502	6	14	30	34	26408	460
00-CAS- 2071	1.87	1.33	1.32	28920	91	1.5	3831	9	18	44	22	45054	618
00-CAS- 2072	0.45	1.15	1.53	31298	65	1.5	4364	8	21	40	26	36977	506
00-CAS- 2073	1	2.75	1.76	31320	78	1.5	4991	8	21	46	32	37321	506
00-CAS- 2074	0.45	1.65	1.37	28457	70	1.5	4367	7	16	37	27	31038	534
00-CAS- 2075	0.45	1.57	1.66	31533	71	1.5	4520	8	19	41	30	35342	545
00-CAS- 2076	0.45	1.23	4.08	28592	88	1.5	4023	9	19	65	28	38573	510
00-CAS- 2077	0.45	1.44	1.37	29568	84	1.5	5182	7	17	32	36	29694	408
00-CAS- 2078	1.1	2.3	2.34	29722	97	1.5	5188	9	25	74	57	42652	672
00-CAS- 2079	1	1.15	1.6	30096	78	1.5	3899	9	20	59	33	43283	464
00-CAS- 2080	0.45	1.11	1.55	28284	62	1.5	3743	8	16	34	22	36017	488
00-CAS- 2081	0.92	0.94	1.53	24506	70	1.5	5349	9	17	35	24	43561	565
00-CAS- 2082	0.45	1.59	2.04	31022	89	1.5	5240	7	18	30	26	32084	446
00-CAS- 2101	0.45	14.37	20.37	21478	155	1.5	8012	13	86	374	55	60318	755
00-CAS- 2102	2.04	35.41	37.31	29942	231	1.5	4705	21	136	870	93	102079	1455
00-CAS- 2103	1.15	10.99	10.12	17313	68	1.5	9056	8	20	87	42	37593	910
00-CAS- 2104	5.88	17.2	27.47	19730	87	1.5	7692	13	65	229	62	64496	530
00-CAS- 2105	1.54	27.78	66.77	28200	140	1.5	7605	17	95	372	119	76893	966
00-CAS- 2106	29.62	258.25	377	22547	158	1.5	2399	30	182	746	206	149880	689
00-CAS- 2107	0.45	55.58	93.3	20789	72	1.5	3508	20	119	484	16	105328	354
00-CAS- 2108	0.45	29.13	76.98	21632	142	1.5	2106	24	119	622	15	125761	472
00-CAS- 2109	0.45	16.51	38.23	21999	97	1.5	1414	29	181	737	20	149647	434

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 2055	15	8244	183	4	836	43	470	246	4	13	1194	130	17.5	4	40
00-CAS- 2056	16	9740	138	4	1330	50	409	181	4	17	1170	109	17.5	5	33
00-CAS- 2057	15	8523	129	4	837	34	288	208	3	11	1025	107	17.5	3	32
00-CAS- 2058	19	8799	161	4	783	37	387	195	3	12	1113	126	17.5	3	39
00-CAS- 2059	13	8607	178	4	884	52	487	233	3	13	1071	129	17.5	4	42
00-CAS- 2060	14	10155	154	4	1059	41	364	164	3	14	1072	111	17.5	4	38
00-CAS- 2061	18	6096	307	4	442	30	311	168	3	10	1295	154	17.5	3	62
00-CAS- 2062	16	11080	148	4	1135	45	331	187	4	14	1040	118	17.5	4	34
00-CAS- 2063	17	8430	137	4	883	46	249	169	3	15	1174	118	17.5	4	37
00-CAS- 2066	17	12872	194	4	1145	43	374	118	5	15	1352	126	17.5	5	39
00-CAS- 2067	18	8724	233	4	630	39	382	181	3	11	1304	126	17.5	3	38
00-CAS- 2068	18	9754	170	4	799	45	428	227	3	14	1137	114	17.5	4	39
00-CAS- 2069	18	8546	214	4	643	44	328	167	3	13	1204	106	17.5	3	44
00-CAS- 2070	15	10000	107	4	1114	36	334	217	3	14	1036	88	17.5	4	29
00-CAS- 2071	23	7776	200	4	627	38	417	257	3	11	1319	139	17.5	3	42
00-CAS- 2072	17	9686	188	4	891	46	407	190	3	12	1263	127	17.5	4	42
00-CAS- 2073	17	9569	197	4	935	47	431	194	3	15	1256	131	17.5	4	41
00-CAS- 2074	15	9156	142	4	887	36	273	180	3	12	1187	109	17.5	4	35
00-CAS- 2075	17	10014	149	4	954	41	251	185	4	14	1269	123	17.5	4	37
00-CAS- 2076	19	10427	231	4	616	43	412	212	4	12	1305	126	17.5	4	46
00-CAS- 2077	14	10193	149	4	922	42	367	187	3	17	1120	106	17.5	4	33
00-CAS- 2078	22	12605	363	4	891	64	589	231	4	14	1405	159	17.5	5	55
00-CAS- 2079	17	7603	241	4	670	48	552	216	4	12	1355	145	17.5	4	47
00-CAS- 2080	18	8596	154	4	640	37	471	312	3	10	1021	115	17.5	3	41
00-CAS- 2081	20	10072	160	4	851	35	380	197	3	15	1427	150	17.5	3	36
00-CAS- 2082	14	10621	174	4	1088	42	394	214	3	14	1143	129	17.5	4	37
00-CAS- 2101	17	28607	1057	4	1448	368	655	112	7	22	1175	63	17.5	6	89
00-CAS- 2102	41	48432	1114	4	490	505	603	130	6	17	2427	96	17.5	4	106
00-CAS- 2103	8	9570	281	4	1957	129	591	51	7	25	1410	124	17.5	9	56
00-CAS- 2104	7	24487	770	4	1582	435	582	106	10	22	1342	99	17.5	7	82
00-CAS- 2105	21	48735	1267	4	1508	539	820	123	11	21	1799	134	17.5	8	133
00-CAS- 2106	16	61591	2006	4	157	1287	719	246	15	8	2361	65	17.5	6	219
00-CAS- 2107	10	31760	972	4	743	656	408	106	9	12	1515	80	17.5	3	147
00-CAS- 2108	11	28318	1155	4	182	518	747	152	5	9	2111	71	17.5	2	202
00-CAS- 2109	9	59950	1831	4	159	987	762	232	10	6	2031	61	17.5	3	346

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 2055	0.03	27395.6	N.M.	51.1	0.52	3454.32	0.025	15.375	15.39	36.62	1.244	35.87
00-CAS- 2056	0.08	24429.7	N.M.	71.43	0.26	5311.8	0.025	16.256	14.99	43.73	1.414	84.7
00-CAS- 2057	0.09	27839.9	N.M.	57.45	0.72	3094.95	0.025	14.389	13.16	32.94	1.219	24.91
00-CAS- 2058	0.08	26167.9	N.M.	57.81	0.78	3006.07	0.025	12.989	13.15	33.47	1.219	23.66
00-CAS- 2059	0.02	30661.2	N.M.	62.03	0.35	3563.5	0.025	16.058	17.56	40.2	1.399	39.48
00-CAS- 2060	0.12	25883.8	N.M.	65.22	0.3	4090.59	0.067	20.057	13.91	31.3	1.059	45.51
00-CAS- 2061	0.14	20469.5	N.M.	74.76	0.23	2540.65	0.105	16.693	13.14	53.15	1.756	14.28
00-CAS- 2062	0.04	28306.6	N.M.	56.82	0.25	4285.33	0.025	15.724	14.1	32.17	1.212	31.5
00-CAS- 2063	0.05	31968.4	N.M.	59.08	0.74	4246.81	0.056	19.43	14.83	39.86	1.771	44.14
00-CAS- 2066	0.01	27203	N.M.	49.61	0.43	4405.03	0.025	25.273	13.61	33.17	1.044	36.27
00-CAS- 2067	0.01	23961.2	N.M.	92.96	0.45	3226.44	0.025	15.626	11.84	30.2	1.344	19.11
00-CAS- 2068	0.05	31731.4	N.M.	68.67	0.13	3991.41	0.025	18.048	15.83	37.02	1.489	24.08
00-CAS- 2069	0.06	23020.6	N.M.	73.34	0.15	2733.89	0.025	15.022	12.32	30.32	1.787	14.97
00-CAS- 2070	0.23	26567.5	N.M.	82.39	0.36	4838.76	0.067	17.059	9.86	28.42	1.133	30.78
00-CAS- 2071	0.08	25982.3	N.M.	84.09	0.05	3229.55	0.05	14.788	11.65	37.99	1.697	17.52
00-CAS- 2072	0.04	33855.8	N.M.	64.8	0.43	4312.45	0.025	19.49	17.75	41.1	1.448	24.41
00-CAS- 2073	0.01	31863.2	N.M.	69.97	0.05	4315.05	0.025	19.236	15.78	42.34	1.479	26.88
00-CAS- 2074	0.01	27108.2	N.M.	64.43	0.05	3569.59	0.025	18.229	11.47	32.62	1.389	22.33
00-CAS- 2075	0.01	29527	N.M.	65.91	0.21	3714.98	0.025	18.931	13.74	37.27	1.435	25.59
00-CAS- 2076	0.14	27384.5	N.M.	89.31	0.48	3788.37	0.06	20.491	14.34	59.51	1.572	24.49
00-CAS- 2077	0.22	27751.7	N.M.	81.9	0.05	4338.69	0.025	17.353	12.22	29.24	1.051	30.37
00-CAS- 2078	0.05	29735.9	N.M.	91.78	0.2	4592.27	0.025	25.469	19.61	70.07	1.545	51.64
00-CAS- 2079	0.01	29537.7	N.M.	76.01	0.46	3568.13	0.025	18.241	14.89	55.96	1.446	28.26
00-CAS- 2080	0.08	30786.2	N.M.	60.69	0.38	3452.38	0.025	14.19	12.12	33.04	1.546	18.89
00-CAS- 2081	0.06	23433.2	N.M.	63.46	0.05	4338.76	0.025	10.874	10.96	29.64	1.513	18.64
00-CAS- 2082	0.01	29567.1	N.M.	85.39	0.05	4511.14	0.025	16.324	12.77	27.02	0.822	21.74
00-CAS- 2101	0.01	19120.2	N.M.	151.09	0.5	6775.65	0.025	28.586	74.55	338.32	2.576	46.88
00-CAS- 2102	0.01	30457.3	N.M.	240.18	0.58	4889.05	0.154	28.619	137.93	600	5.721	91.67
00-CAS- 2103	0.05	18127.7	N.M.	72.44	0.05	8810.9	0.057	31.505	15.28	87.7	1.392	39.98
00-CAS- 2104	0.01	24066.9	N.M.	79.95	0.64	7917.83	0.152	24.703	64.59	336.54	1.633	67.15
00-CAS- 2105	0.01	31476.8	N.M.	137.12	1	7579.84	0.081	49.509	93.69	525.63	1.964	118.58
00-CAS- 2106	0.01	21365.9	N.M.	163.99	1.17	2447.01	0.325	15.868	178.4	600	1.235	196.17
00-CAS- 2107	0.01	19731.9	N.M.	77.43	0.05	3087.07	0.211	16.492	121.7	600	0.895	18.23
00-CAS- 2108	0.01	17643.8	N.M.	141.38	0.18	1544.6	0.187	15.157	110.76	600	1.316	10.41
00-CAS- 2109	0.01	18303.3	N.M.	103.97	0.11	1079.72	0.425	14.183	180.02	600	1.29	13.95

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 2055	1.081	0.478	0.265	30043.9	5.34	1.197	0.08	0.025	0.172	6.675	13.86	0.051	7132.7
00-CAS- 2056	1.05	0.492	0.302	29253.6	4.79	1.365	0.08	0.025	0.183	7.069	17.56	0.046	9000.59
00-CAS- 2057	0.783	0.378	0.279	27610.7	5.24	0.897	0.1	0.025	0.126	6.716	16.79	0.046	8458.31
00-CAS- 2058	0.635	0.299	0.208	33845.2	5.93	0.951	0.09	0.025	0.123	5.92	18.98	0.034	8160.39
00-CAS- 2059	0.846	0.437	0.267	32008.6	5.47	1.141	0.07	0.025	0.173	6.552	16.68	0.055	8389.53
00-CAS- 2060	1.006	0.548	0.38	24405.4	4.62	1.161	0.1	0.025	0.241	7.854	13.73	0.092	8798.66
00-CAS- 2061	0.58	0.254	0.261	39431.4	8.05	1.02	0.08	0.025	0.138	7.998	18.34	0.073	5578.18
00-CAS- 2062	0.96	0.494	0.258	25992.4	4.53	1.04	0.17	0.025	0.186	6.27	15.4	0.072	9661.98
00-CAS- 2063	0.897	0.51	0.282	34337.7	5.71	1.009	0.14	0.025	0.194	7.441	17.37	0.057	8564.66
00-CAS- 2066	1.148	0.563	0.34	28595.3	4.74	1.234	0.22	0.025	0.251	7.384	14.9	0.079	11495.6
00-CAS- 2067	0.671	0.342	0.198	32376	6.05	0.877	0.08	0.025	0.132	6.729	17.68	0.042	8317.32
00-CAS- 2068	0.892	0.35	0.224	29209.2	4.9	1.027	0.07	0.025	0.205	7.285	17.49	0.05	9337.17
00-CAS- 2069	0.626	0.304	0.211	26220.6	4.98	0.857	0.08	0.025	0.119	7.003	15.05	0.038	7032.84
00-CAS- 2070	0.973	0.444	0.324	22309.7	4.64	1.325	0.07	0.025	0.161	8.396	16.2	0.035	9751.41
00-CAS- 2071	0.713	0.29	0.225	37653.1	6.39	1.016	0.11	0.025	0.112	7.228	20.79	0.038	6814
00-CAS- 2072	0.787	0.472	0.301	36087.5	5.49	1.281	0.13	0.025	0.149	7.766	19.38	0.033	10500.8
00-CAS- 2073	0.914	0.417	0.277	32194.9	5.39	0.932	0.12	0.025	0.174	7.203	16.11	0.044	9277.37
00-CAS- 2074	0.816	0.417	0.262	26913.5	5.29	1.173	0.08	0.025	0.171	7.781	14.31	0.043	8404.93
00-CAS- 2075	0.834	0.402	0.281	29450.4	5.32	1.137	0.11	0.025	0.168	7.051	15.77	0.051	9289.88
00-CAS- 2076	0.79	0.384	0.225	34312.8	5.67	1.277	0.08	0.025	0.172	10.108	17.99	0.048	9873.55
00-CAS- 2077	0.665	0.303	0.272	24101.8	4.09	0.944	0.1	0.025	0.138	6.715	13.04	0.032	9567.55
00-CAS- 2078	1.08	0.527	0.312	38473.3	6.16	1.492	0.09	0.025	0.214	9.282	22.35	0.052	12730.6
00-CAS- 2079	0.818	0.326	0.297	38565.2	6.02	1.188	0.12	0.025	0.175	8.275	16.38	0.05	7370.94
00-CAS- 2080	0.664	0.325	0.195	34485.2	5.63	1.013	0.08	0.025	0.113	6.507	19.53	0.036	9245.52
00-CAS- 2081	0.606	0.255	0.154	37135.4	6.26	0.82	0.13	0.025	0.108	4.87	18.52	0.043	9594.11
00-CAS- 2082	0.647	0.389	0.229	27704.2	4.58	0.826	0.06	0.025	0.15	5.437	14.2	0.037	10073.8
00-CAS- 2101	1.132	0.602	0.317	55475.4	3.82	1.497	0.1	0.025	0.228	8.654	15.32	0.036	25144.4
00-CAS- 2102	0.773	0.478	0.393	99911.5	6.88	1.459	0.09	0.025	0.155	8.972	46.9	0.042	49171.3
00-CAS- 2103	1.819	0.99	0.54	38002.8	3.74	2.685	0.18	0.025	0.395	12.877	9.26	0.131	9834.35
00-CAS- 2104	1.481	0.767	0.451	73705.5	3.93	2.375	0.025	0.1	0.261	11.839	13.35	0.053	27572.1
00-CAS- 2105	1.913	0.846	0.396	83517.4	5.66	2.51	0.08	0.025	0.349	10.861	26.1	0.092	50206.6
00-CAS- 2106	1.251	0.63	0.417	146930	4.39	1.723	0.1	0.05	0.221	8.033	15.38	0.082	57740.8
00-CAS- 2107	0.715	0.309	0.252	103548	3.73	1.138	0.2	0.06	0.134	5.873	10.38	0.037	31528
00-CAS- 2108	0.452	0.176	0.171	112959	4.82	0.913	0.025	0.12	0.052	6.272	8.29	0.01	25273.1
00-CAS- 2109	0.568	0.205	0.17	141305	3.83	1.189	0.12	0.09	0.119	4.634	8.04	0.029	54292.5

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 2055	147.55	0.8	1.42	6.3	37.68	4.06	1.62	5.63	0.08	3.32	1.216	0.65	11.7
00-CAS- 2056	123.38	1.09	1.1	7.08	47.79	4.14	1.846	6.74	0.06	3.73	1.58	0.74	15.3
00-CAS- 2057	116.14	0.75	0.94	6.49	30.98	4.23	1.724	7.88	0.025	2.98	1.287	0.25	9
00-CAS- 2058	138.76	0.73	1.11	5.94	31.91	4.81	1.61	7.89	0.025	2.72	1.224	0.25	10.8
00-CAS- 2059	154.23	0.52	0.86	5.87	48.07	3.77	1.648	8.47	0.025	3.41	1.086	0.25	12
00-CAS- 2060	135.06	0.4	0.64	7.34	34.96	3.97	2.013	8	0.19	3.33	1.39	0.25	16.3
00-CAS- 2061	267	0.91	0.75	7.08	25.11	6.98	1.959	16.54	0.15	3	1.319	0.62	11.3
00-CAS- 2062	134.51	0.52	0.67	6.2	36.44	3.86	1.597	8.73	0.1	3.28	1.297	0.25	13.6
00-CAS- 2063	136.32	1.37	0.85	7.23	40.84	5.93	1.914	11.11	0.08	3.61	1.386	0.81	15.2
00-CAS- 2066	170.6	0.42	0.86	7.08	33.03	3.67	1.923	8.12	0.025	4.27	1.354	0.58	14.8
00-CAS- 2067	209.62	0.76	1.32	5.94	29.83	5.38	1.704	13.16	0.07	2.33	1.116	0.64	10.9
00-CAS- 2068	147.76	0.57	1.35	7.36	39.06	4.06	1.751	11.28	0.025	3.25	1.094	0.52	13.7
00-CAS- 2069	162.65	0.74	1.26	6.19	31.19	4.72	1.692	16.37	0.025	1.99	1.203	0.57	11.3
00-CAS- 2070	111.25	0.61	1.05	8.32	29.76	4.01	2.085	8.19	0.17	2.76	1.328	0.25	14.6
00-CAS- 2071	174.85	1.26	1.5	6.97	27.79	6.06	1.798	12.05	0.13	2.64	1.125	0.65	9.7
00-CAS- 2072	183.51	0.74	1.37	7.22	42.43	4.02	1.837	10.78	0.1	3.66	1.331	0.25	12.7
00-CAS- 2073	181.85	0.49	1.25	6.78	38.87	4.09	1.716	9.06	0.07	3.3	1.343	0.25	14.6
00-CAS- 2074	131.28	0.48	0.72	7.66	27.88	5.34	1.971	10.49	0.05	3.04	1.567	0.64	11.4
00-CAS- 2075	138.95	0.42	0.74	6.61	32.72	4.34	1.699	8.94	0.06	3.73	1.29	0.52	13.6
00-CAS- 2076	212.39	0.75	1.32	8.16	33.66	5.75	2.239	9.28	0.19	3.39	1.511	0.59	12.4
00-CAS- 2077	140.48	0.44	1.23	6.71	33.89	3.08	1.649	7.28	0.12	2.59	1.235	0.25	16.7
00-CAS- 2078	332.2	0.71	1.22	8.74	55.73	4.72	2.207	14.67	0.14	4.21	1.642	0.84	13.6
00-CAS- 2079	222.19	0.68	1.32	7.97	38.02	4.92	2.003	8.62	0.11	4.1	1.501	0.56	11.4
00-CAS- 2080	159	0.84	1.41	6.52	30.83	4.12	1.627	10.06	0.08	2.64	1.111	0.25	10.9
00-CAS- 2081	145.61	0.86	1.19	5.11	25.93	4.45	1.152	11.71	0.08	2.26	0.781	0.59	14.8
00-CAS- 2082	158.33	0.42	1.04	5.34	34.41	3.26	1.375	6.51	0.06	2.44	1.039	0.51	11.5
00-CAS- 2101	967.56	0.19	0.52	10.24	335.89	5.82	2.518	23.78	0.05	6.57	1.774	0.68	20.3
00-CAS- 2102	1154.14	0.42	0.32	9.55	545.74	13.32	2.259	44.18	0.025	6.86	1.46	0.78	19.1
00-CAS- 2103	317.07	0.3	0.36	13.87	117.63	5.99	3.287	22.06	0.38	7.56	2.772	0.6	23.9
00-CAS- 2104	899.83	0.42	0.46	13.24	594.35	4.77	3.316	25.33	0.1	11.79	2.395	0.76	23.1
00-CAS- 2105	1395.36	0.37	0.5	12.97	730.7	19.27	3.3	20.79	0.11	12.28	2.8	1.35	21.1
00-CAS- 2106	1853.33	0.33	0.77	11.1	1729.55	8.64	2.291	20.18	0.025	16.22	1.762	0.69	9.5
00-CAS- 2107	998.78	0.35	0.5	6.66	921.19	7.15	1.632	10.69	0.025	9.36	0.993	0.25	12.8
00-CAS- 2108	1047.43	0.51	1.11	5.49	678.66	12.98	1.541	12.15	0.06	4.88	0.965	0.96	8.7
00-CAS- 2109	1706.96	0.4	0.87	5.1	1360.94	12.66	1.282	10.35	0.06	9.54	0.691	0.62	5.8

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 2055	0.025	0.173	2.26	5	0.05	0.043	0.269	123.72	0.11	4.16	0.379	32.59	6.23
00-CAS- 2056	0.025	0.188	2.18	5	0.09	0.076	0.32	123.84	0.13	4.86	0.442	25.67	6.46
00-CAS- 2057	0.025	0.156	2.07	5	0.06	0.057	0.187	118.58	0.025	3.21	0.322	25.35	4.7
00-CAS- 2058	0.025	0.147	2.08	5	0.06	0.044	0.177	128.78	0.025	3.09	0.263	30.51	5.26
00-CAS- 2059	0.025	0.151	2.1	5	0.025	0.051	0.191	137.13	0.09	3.94	0.33	33.82	5.17
00-CAS- 2060	0.025	0.233	2.59	5	0.08	0.12	0.596	96.08	0.13	4.44	0.436	33.84	5.63
00-CAS- 2061	0.025	0.171	2.12	5	0.08	0.061	0.374	152.5	0.09	2.76	0.265	56.85	4.17
00-CAS- 2062	0.025	0.175	2.47	5	0.07	0.094	0.495	107.54	0.025	4.03	0.436	26.06	7.31
00-CAS- 2063	0.025	0.167	2.71	5	0.08	0.081	0.452	120.82	5.08	3.79	0.384	32.83	7.08
00-CAS- 2066	0.025	0.249	3.04	5	0.08	0.095	0.507	121.61	1.81	4.88	0.547	29.68	9.11
00-CAS- 2067	0.025	0.143	2.19	5	0.06	0.052	0.419	117.15	1.12	2.99	0.291	28.92	5.4
00-CAS- 2068	0.025	0.199	2.32	5	0.06	0.073	0.454	110.5	0.63	3.95	0.376	30.97	4.96
00-CAS- 2069	0.025	0.152	2.49	5	0.08	0.04	0.446	76.17	0.62	2.67	0.322	31.28	4.13
00-CAS- 2070	0.025	0.205	2.1	5	0.1	0.074	0.589	76.01	0.41	4.7	0.419	23.38	5.36
00-CAS- 2071	0.025	0.14	2.08	5	0.07	0.045	0.415	116.94	0.37	3.13	0.324	30.5	5.28
00-CAS- 2072	0.025	0.182	2.34	5	0.05	0.052	0.434	132.92	0.33	4.22	0.391	35.29	6.46
00-CAS- 2073	0.025	0.164	2.35	5	0.06	0.051	0.44	118.9	0.35	3.74	0.324	31.4	5.19
00-CAS- 2074	0.025	0.183	2.38	5	0.08	0.057	0.445	88.38	0.2	3.69	0.36	24.81	5.32
00-CAS- 2075	0.025	0.181	2.42	5	0.07	0.059	0.405	105.11	0.1	3.71	0.327	26.59	7.23
00-CAS- 2076	0.025	0.176	2.56	5	0.06	0.046	0.553	108.01	0.19	4.01	0.311	37.94	4.18
00-CAS- 2077	0.025	0.148	2.11	5	0.025	0.048	0.449	86.36	0.14	3.5	0.357	24.06	4.7
00-CAS- 2078	0.025	0.208	2.39	5	0.08	0.077	0.535	145.12	0.21	5.07	0.432	44.51	4.5
00-CAS- 2079	0.025	0.169	2.32	5	0.05	0.061	0.434	133.19	0.2	3.98	0.414	37	4.19
00-CAS- 2080	0.025	0.121	1.76	5	0.05	0.042	0.379	106.8	0.1	3.25	0.319	33.51	3.42
00-CAS- 2081	0.025	0.136	1.58	5	0.06	0.044	0.336	119.85	0.11	3.06	0.332	26.46	4.83
00-CAS- 2082	0.025	0.137	1.94	5	0.025	0.041	0.321	111.13	0.12	3.27	0.342	26.92	4.92
00-CAS- 2101	0.025	0.259	1.93	5	0.17	0.062	0.558	49.98	0.15	5.12	0.48	66.61	5.34
00-CAS- 2102	0.025	0.198	1.43	5	0.4	0.066	0.37	99.94	0.11	4.01	0.35	92.42	7.71
00-CAS- 2103	0.025	0.373	2.31	5	0.1	0.122	0.565	114.64	0.12	8.91	0.746	48.66	8.64
00-CAS- 2104	0.025	0.307	2.29	5	0.13	0.102	0.535	139.47	1.37	7.84	0.563	69.88	5.87
00-CAS- 2105	0.025	0.369	2.43	5	0.24	0.072	0.596	172	0.5	8.35	0.641	115.25	9.97
00-CAS- 2106	0.025	0.281	1.65	5	0.16	0.067	0.363	79.83	0.61	5.49	0.523	193.42	9.21
00-CAS- 2107	0.025	0.152	2.09	5	0.1	0.055	0.344	82.7	0.44	2.94	0.273	132.95	10.69
00-CAS- 2108	0.025	0.089	2.1	5	0.14	0.021	0.282	53.76	0.45	1.69	0.18	173.49	6.52
00-CAS- 2109	0.025	0.126	1.51	5	0.13	0.027	0.267	56.39	0.16	2.28	0.187	313.91	7.44

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 2110	0.45	39.42	79.37	25304	131	1.5	1494	27	148	738	12	146659	484
00-CAS- 2111	0.45	122.85	108.65	21459	96	1.5	1896	29	150	743	16	160110	468
00-CAS- 2112	0.45	144.69	100.38	21640	95	1.5	1839	29	155	755	20	165313	466
00-CAS- 2151	28.13	2	1.41	26982	81	1.5	3331	6	16	42	26	30338	278
00-CAS- 2152	4.84	1.78	1.6	17695	170	1.5	6207	6	16	39	22	32193	241
00-CAS- 2153	1.21	1.49	1.35	24978	70	1.5	3636	6	14	36	32	30711	267
00-CAS- 2155	1.13	2.06	1.58	24289	48	1.5	2509	7	14	33	45	32647	334
00-CAS- 2156	3.31	3.79	2.85	32345	70	1.5	2277	7	15	37	120	37918	345
00-CAS- 2157	0.45	0.45	1.3	26794	81	1.5	2076	7	13	34	14	34543	278
00-CAS- 2158	3.28	0.45	1.31	27481	62	1.5	3096	7	14	38	17	34202	339
00-CAS- 2159	0.45	0.45	1.02	27230	82	1.5	2596	7	13	35	16	33737	389
00-CAS- 2161	1.27	1.02	0.93	19750	81	1.5	3429	5	12	31	50	24104	271
00-CAS- 2162	0.45	0.93	0.93	17792	78	1.5	3455	4	10	28	26	21676	248
00-CAS- 2163	2.45	0.45	1.09	31528	84	1.5	3321	7	18	37	17	33220	355
00-CAS- 2164	5.19	1.63	1.89	29657	70	1.5	3129	7	16	42	30	33163	386
00-CAS- 2165	8.81	2.44	1.73	29807	67	1.5	3249	7	16	42	29	32786	396
00-CAS- 2167	1.96	4.48	2.02	37952	56	1.5	2275	7	18	40	117	33715	337
00-CAS- 2168	1.24	1.55	1.92	32206	89	1.5	2661	6	19	38	37	32120	351
00-CAS- 2169	1.13	1.21	1.69	32661	93	1.5	3192	7	16	42	24	32480	444
00-CAS- 2170	1.95	1.03	1.18	29231	78	1.5	3168	6	15	40	16	30614	324
00-CAS- 2172	1.37	2.3	1.38	30271	70	2	2138	8	15	39	19	31982	260
00-CAS- 2173	1.29	1.08	1.28	26327	149	1.5	3333	6	14	39	13	32188	486
00-CAS- 2175	0.45	0.45	1.19	26923	199	1.5	2686	7	16	33	12	30748	445
00-CAS- 2176	1.37	0.45	1.8	27848	218	1.5	4677	7	14	37	13	32571	511
00-CAS- 2177	1.94	0.45	1.35	22623	125	1.5	3374	6	14	35	12	29359	365
00-CAS- 2178	1.1	1.56	1.05	23555	102	1.5	2871	6	14	33	12	30243	448
00-CAS- 2179	1.35	1.42	1.59	30477	135	1.5	3169	7	16	40	18	32770	456
00-CAS- 2180	1.15	0.91	1.96	30315	189	1.5	4217	7	15	38	15	32799	484
00-CAS- 2181	3.25	0.99	1.37	18888	102	1.5	4378	7	13	36	32	32712	366
00-CAS- 2182	0.45	0.45	1.39	25975	111	1.5	3774	6	13	33	12	31393	380
00-CAS- 2183	1.35	3.35	1.59	29580	168	1.5	4076	7	14	39	13	35140	377
00-CAS- 2184	0.95	0.45	1.21	30011	157	1.5	3605	7	14	37	14	33060	399
00-CAS- 2185	2.56	1.09	1.5	27747	184	1.5	3662	6	16	38	31	32342	618
00-CAS- 2187	1.75	0.45	1.34	29167	88	1.5	3733	7	15	39	15	32107	317
00-CAS- 2189	1.68	0.45	1.48	33834	174	1.5	3761	7	17	40	17	35181	409

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 2110	17	35469	1026	4	201	690	600	159	5	7	2026	69	17.5	1	171
00-CAS- 2111	6	29765	1646	4	259	864	811	145	12	8	1757	68	17.5	3	278
00-CAS- 2112	6	27791	1663	4	228	791	912	169	11	8	1815	70	17.5	3	280
00-CAS- 2151	9	3532	146	4	555	34	238	181	4	15	1327	115	17.5	4	29
00-CAS- 2152	13	5201	632	4	550	29	182	123	5	19	1108	87	17.5	5	30
00-CAS- 2153	11	4423	130	4	485	32	201	138	4	16	1277	110	17.5	5	27
00-CAS- 2155	12	4010	135	4	372	35	334	215	3	9	1150	107	17.5	3	32
00-CAS- 2156	15	4789	148	4	290	41	344	271	4	9	1080	104	17.5	4	38
00-CAS- 2157	14	4673	141	4	240	32	233	139	2	10	1188	110	17.5	3	32
00-CAS- 2158	12	4448	211	4	433	34	388	197	3	12	1287	121	17.5	3	35
00-CAS- 2159	13	4346	206	4	272	34	391	177	3	11	1112	107	17.5	3	39
00-CAS- 2161	10	3643	129	4	477	37	265	107	2	14	1278	85	17.5	4	29
00-CAS- 2162	10	4070	126	4	479	25	169	75	2	12	1326	77	17.5	3	31
00-CAS- 2163	12	3439	149	4	441	38	523	237	3	13	1172	116	17.5	4	47
00-CAS- 2164	12	5600	171	4	542	32	325	147	7	13	1431	115	17.5	7	38
00-CAS- 2165	12	5854	172	4	588	34	306	149	7	12	1426	113	17.5	7	37
00-CAS- 2167	14	4638	138	4	318	42	634	281	4	9	1085	98	17.5	4	40
00-CAS- 2168	11	5083	162	4	423	42	367	211	4	10	1243	109	17.5	4	42
00-CAS- 2169	11	5323	163	4	518	35	366	140	4	12	1341	109	17.5	4	35
00-CAS- 2170	9	3860	156	4	517	36	434	171	3	12	1327	117	17.5	4	47
00-CAS- 2172	9	4143	160	4	315	34	583	188	3	8	1058	114	18	3	36
00-CAS- 2173	11	4385	174	4	406	34	404	128	3	13	1258	115	17.5	3	49
00-CAS- 2175	14	4475	177	4	298	30	434	112	3	13	1139	90	17.5	3	54
00-CAS- 2176	12	4539	224	4	471	37	508	141	3	20	1260	114	17.5	3	45
00-CAS- 2177	10	3446	496	4	370	31	323	136	2	14	1182	103	17.5	3	51
00-CAS- 2178	12	3934	422	4	293	28	380	193	3	12	1110	98	17.5	3	41
00-CAS- 2179	13	5501	178	4	516	32	392	343	4	11	1155	99	17.5	4	37
00-CAS- 2180	13	5365	194	4	503	33	582	205	3	16	1112	108	17.5	4	41
00-CAS- 2181	11	3821	167	4	484	26	1037	184	3	16	1169	118	17.5	4	38
00-CAS- 2182	12	4545	166	4	335	31	542	169	2	14	1080	99	17.5	3	55
00-CAS- 2183	11	4245	185	4	443	35	549	204	3	17	1261	123	17.5	4	38
00-CAS- 2184	11	4596	178	4	453	35	481	178	3	13	1245	114	17.5	4	45
00-CAS- 2185	11	4435	178	4	342	35	358	114	3	18	1211	104	17.5	4	52
00-CAS- 2187	11	3957	149	4	399	36	314	158	3	13	1181	103	17.5	3	39
00-CAS- 2189	14	4788	205	4	409	38	598	180	3	13	1160	109	17.5	4	41

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 2110	0.01	23213.5	N.M.	128.61	0.36	1210.66	0.199	11.831	147.27	600	1.469	7.06
00-CAS- 2111	0.01	19495.1	N.M.	99.35	0.25	1635.88	0.282	15.287	151.1	600	1.024	10.75
00-CAS- 2112	0.01	20001.1	N.M.	95.52	1.18	1682.91	0.357	16.163	149.67	600	1.049	14.24
00-CAS- 2151	0.01	23237.3	N.M.	76.73	0.49	2693.93	0.072	32.829	10.32	34.41	0.515	22.59
00-CAS- 2152	0.01	17381.2	N.M.	162.35	0.64	5851.81	0.151	28.12	10.69	34.77	0.571	20.92
00-CAS- 2153	0.01	26382.7	N.M.	73	1.43	3767.27	0.18	24.562	10.88	36.27	0.566	32.86
00-CAS- 2155	0.09	25787	N.M.	49.88	1.1	2503.62	0.168	18.954	9.82	27	0.868	46.98
00-CAS- 2156	0.34	31153.9	N.M.	65.27	0.72	1962.52	0.089	20.786	8.83	24.35	0.706	108.37
00-CAS- 2157	0.25	24736.2	N.M.	78.69	0.33	2013.3	0.302	16.895	8.9	26.64	1.023	11.31
00-CAS- 2158	0.08	23377.9	N.M.	58.23	0.05	2251.47	0.086	24.302	8.6	27.78	1.117	11.26
00-CAS- 2159	0.05	28338.6	N.M.	78.33	0.05	2201.62	0.099	18.359	9.35	28.67	1.158	11.96
00-CAS- 2161	0.04	21817.4	N.M.	79.78	0.2	3207.85	0.072	18.665	9.26	26.56	0.716	42.6
00-CAS- 2162	0.06	17704.1	N.M.	71.92	0.05	2954	0.073	16.71	6.56	23.44	0.729	21.54
00-CAS- 2163	0.07	36836.5	N.M.	81.64	0.2	3241.61	0.098	20.76	12.46	33.21	1.148	18.48
00-CAS- 2164	0.2	30727.2	N.M.	70.27	0.44	3060.87	0.214	42.533	11.81	38.94	0.822	27.02
00-CAS- 2165	0.06	30530.3	N.M.	69.33	0.18	2903.77	0.083	46.116	12.09	39.39	0.81	25.59
00-CAS- 2167	0.01	39521	N.M.	55.28	0.57	2143.2	0.067	23.582	13.32	37.62	0.808	104.18
00-CAS- 2168	0.17	36013	N.M.	88.52	0.89	2450.65	0.084	27.04	15.58	38.04	0.956	35.87
00-CAS- 2169	0.07	32313.6	N.M.	94.19	0.44	2765.84	0.05	24.786	12.01	37.75	0.834	21.67
00-CAS- 2170	0.04	29111	N.M.	76.55	0.34	2767.99	0.05	25.952	11.8	36.9	0.861	13.3
00-CAS- 2172	0.08	31751.8	N.M.	70.27	0.1	2833.58	0.157	25.548	12.19	35.79	0.836	17.41
00-CAS- 2173	0.1	27521.9	N.M.	150.44	0.39	2996.73	0.074	20.713	11.16	39.26	1.06	11.19
00-CAS- 2175	0.1	26808.1	N.M.	205.66	0.51	2187.5	0.025	18.002	11.4	31.36	1.267	9.62
00-CAS- 2176	0.15	27615.8	N.M.	222.66	1	4053.52	0.106	22.155	12	38.18	0.981	12.48
00-CAS- 2177	0.1	22614.5	N.M.	136.76	0.44	3001.18	0.071	20.604	11.52	36	1.323	10.98
00-CAS- 2178	0.07	22319.8	N.M.	105.16	0.26	2299.98	0.058	21.668	10.95	31.25	1.369	10.48
00-CAS- 2179	0.23	29487.9	N.M.	133.47	0.3	2741.16	0.203	28.057	11.11	37.73	1.099	15.41
00-CAS- 2180	0.18	30856.6	N.M.	190.46	0.12	3514.11	0.129	28.951	11.11	36.72	1.094	11.72
00-CAS- 2181	0.13	18608.4	N.M.	114.52	0.36	3606.37	0.09	32.841	9.11	35.37	0.706	29.39
00-CAS- 2182	0.08	26497.2	N.M.	118.46	0.79	3113.11	0.063	19.132	10.88	34.44	1.29	11.12
00-CAS- 2183	0.13	27520.3	N.M.	175.34	0.18	3159.95	0.079	31.399	10.85	37.45	0.915	10.14
00-CAS- 2184	0.07	30712.8	N.M.	166.97	0.47	3092.28	0.07	26.672	11.11	37.19	1.044	11.47
00-CAS- 2185	0.12	29200.3	N.M.	199.29	0.7	3210.66	0.053	33.032	13.22	40.9	1.099	30.14
00-CAS- 2187	0.12	27478.9	N.M.	92	0.38	2928.47	0.074	19.081	11.5	37.84	1.067	12.79
00-CAS- 2189	0.24	33077.7	N.M.	182.04	1	3253.57	0.214	21.983	15.01	42.2	1.165	17.06

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 2110	0.446	0.09	0.141	138462	4.7	0.638	0.13	0.14	0.07	4.358	16.88	0.034	35194.9
00-CAS- 2111	0.732	0.297	0.204	160871	4.07	1.093	0.09	0.025	0.105	5.592	5.8	0.032	29638
00-CAS- 2112	0.654	0.374	0.223	143238	3.7	1.019	0.09	0.1	0.114	6.245	6.71	0.047	26765.2
00-CAS- 2151	0.834	0.255	0.277	22192.2	4	1.263	0.13	0.025	0.133	8.488	8.74	0.046	2893.13
00-CAS- 2152	1.011	0.447	0.34	28697.3	5.02	1.459	0.025	0.025	0.182	12.347	13.49	0.077	5155.81
00-CAS- 2153	0.889	0.49	0.356	30363.7	4.81	1.518	0.025	0.07	0.138	10.439	14.75	0.064	4682.61
00-CAS- 2155	0.668	0.381	0.289	28614.1	4.96	0.947	0.09	0.025	0.145	8.159	16.68	0.046	4108.15
00-CAS- 2156	0.899	0.417	0.364	28836.6	5.56	1.323	0.06	0.025	0.118	9.638	15.76	0.04	4091.24
00-CAS- 2157	0.805	0.418	0.288	28819.5	5.27	1.031	0.1	0.025	0.167	8.837	11.82	0.07	4240.7
00-CAS- 2158	0.774	0.378	0.271	25562.6	4.46	1.054	0.09	0.06	0.146	8.449	10.06	0.068	3740.89
00-CAS- 2159	0.587	0.358	0.232	30994	5.58	1.072	0.11	0.025	0.125	8.802	12.51	0.043	4320.71
00-CAS- 2161	0.865	0.374	0.277	23064.7	4.18	1.23	0.14	0.05	0.151	9.06	9.4	0.04	3841.02
00-CAS- 2162	0.561	0.289	0.293	18273.4	3.53	1.2	0.14	0.06	0.16	8.797	9.22	0.085	3983.38
00-CAS- 2163	0.778	0.428	0.313	32688.4	4.36	1.347	0.11	0.07	0.147	8.981	11.57	0.047	3869.29
00-CAS- 2164	1.814	0.879	0.545	29598.4	4.8	2.323	0.23	0.06	0.353	14.134	11.73	0.063	5678.78
00-CAS- 2165	2	0.879	0.591	30071.9	4.72	2.384	0.19	0.07	0.352	14.372	10.6	0.082	5948.48
00-CAS- 2167	1.012	0.377	0.345	29008.9	4.75	1.348	0.11	0.06	0.182	9.513	14.8	0.056	4830.92
00-CAS- 2168	1.165	0.53	0.342	29226	4.95	1.378	0.16	0.025	0.208	9.075	12.32	0.051	5425.47
00-CAS- 2169	1.005	0.46	0.353	27702	5.01	1.297	0.18	0.06	0.205	9.106	9.76	0.063	5069.13
00-CAS- 2170	0.963	0.423	0.285	25554.2	4.45	1.377	0.14	0.025	0.149	9.173	9.13	0.042	3731.31
00-CAS- 2172	0.902	0.398	0.31	26262.4	4.64	1.341	0.17	0.06	0.166	8.739	10.14	0.054	4365.74
00-CAS- 2173	0.648	0.307	0.213	29528.8	5.55	0.943	0.08	0.025	0.116	8.212	11.31	0.042	4613.41
00-CAS- 2175	0.553	0.3	0.222	25753.8	6.47	0.886	0.08	0.025	0.091	8.863	12.92	0.022	4342.95
00-CAS- 2176	0.694	0.235	0.213	28085.1	6.78	1.144	0.025	0.025	0.115	8.498	12.9	0.045	4515.38
00-CAS- 2177	0.7	0.213	0.229	25158.3	5.95	0.91	0.025	0.06	0.107	8.536	10.72	0.039	3436.84
00-CAS- 2178	0.793	0.34	0.236	23774	6.01	1.004	0.025	0.06	0.121	9.049	13.64	0.043	3682.5
00-CAS- 2179	0.999	0.508	0.309	26117.8	5.35	1.286	0.13	0.025	0.172	10.19	11.37	0.047	5114.41
00-CAS- 2180	0.959	0.502	0.293	28056	6.07	1.357	0.08	0.025	0.131	10.036	11.19	0.045	5251.06
00-CAS- 2181	0.867	0.355	0.254	28219.2	4.93	1.395	0.07	0.025	0.153	10.082	10.3	0.042	3665.35
00-CAS- 2182	0.724	0.357	0.239	27650	5.74	1.092	0.06	0.06	0.118	9.262	12.69	0.031	4562.55
00-CAS- 2183	0.907	0.428	0.287	28931.6	6.06	1.154	0.16	0.025	0.165	8.835	10.81	0.045	3864.96
00-CAS- 2184	0.861	0.362	0.266	28391.3	6.35	1.182	0.08	0.025	0.133	9.8	11.36	0.027	4495.15
00-CAS- 2185	1.012	0.487	0.365	27992.8	6.2	1.196	0.19	0.06	0.151	10.372	12.26	0.049	4553.94
00-CAS- 2187	0.842	0.353	0.277	25299.5	5.29	0.983	0.06	0.06	0.145	8.746	11.44	0.036	3699.69
00-CAS- 2189	0.918	0.414	0.325	29373	6.53	1.435	0.09	0.025	0.181	9.682	14.29	0.064	4544.69

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 2110	1003.65	0.65	0.97	4.63	983.36	8.47	1.018	12.38	0.025	4.78	0.974	0.91	7.3
00-CAS- 2111	1644.55	0.41	0.53	6.86	1247.79	10.14	1.609	13.54	0.07	12.34	1.171	0.59	8.4
00-CAS- 2112	1489.25	0.54	0.73	7.41	990.85	9.78	1.681	14.79	0.16	12.27	1.44	0.93	8
00-CAS- 2151	107.44	0.65	1.56	7.63	20.53	3.57	2.001	3.17	0.05	3.56	1.39	0.25	13.4
00-CAS- 2152	618.56	1.44	1.32	12.29	13.82	6.01	3.047	4.66	0.025	4.85	2.068	0.83	17.6
00-CAS- 2153	151.09	0.97	1.62	10.06	21.01	4.33	2.702	4.15	0.1	4.24	2.081	0.86	16.5
00-CAS- 2155	124.78	0.81	1.78	7.5	17.41	5.2	1.978	5.29	0.025	3.23	1.356	0.72	9.1
00-CAS- 2156	112.13	1.18	2.17	9.13	20.21	5.62	2.206	4.67	0.1	3.64	1.616	0.66	9
00-CAS- 2157	122.34	0.82	1.57	7.77	23.09	6.48	2.084	4.72	0.86	1.92	1.354	0.7	10.5
00-CAS- 2158	167.76	0.57	1.19	6.84	23.36	5.74	1.816	4.89	0.18	2.07	1.1	0.25	10
00-CAS- 2159	190.72	0.71	1.19	7.62	25.8	6.32	1.929	6.75	0.12	2.22	1.173	0.65	10.5
00-CAS- 2161	119.18	0.92	1.14	8.68	31.54	4.55	2.12	3.62	0.07	2.18	1.47	0.55	14
00-CAS- 2162	113.52	1.07	0.92	7.75	19.59	4.88	2.049	3.61	0.2	1.87	1.362	0.25	12.7
00-CAS- 2163	153.68	1.09	1.27	7.79	30.67	6.15	2.075	6.78	0.025	2.53	1.472	0.7	12.4
00-CAS- 2164	165.4	0.85	0.89	12.73	25.97	5.51	3.227	5.8	0.64	6.64	2.609	0.6	13.1
00-CAS- 2165	155.59	0.75	0.8	12.92	26.57	4.8	3.276	5.9	0.09	6.62	2.569	0.25	11.5
00-CAS- 2167	125.13	0.94	1.56	8.82	34.41	5.59	2.195	4.54	0.06	3.91	1.468	0.75	8.8
00-CAS- 2168	157.07	0.75	1.41	7.94	37.64	4.55	2.03	6.35	0.025	3.73	1.385	0.25	10.6
00-CAS- 2169	136.05	0.6	1.03	7.82	28.32	4.63	2.016	6.42	0.025	3.72	1.345	0.58	10.7
00-CAS- 2170	129.71	0.66	1.12	8.06	30.63	4.3	2.181	5.44	0.025	3.17	1.341	0.25	11.6
00-CAS- 2172	148.96	0.69	1	8.1	28.45	4.9	2.118	6.66	0.07	3.5	1.501	0.71	12.5
00-CAS- 2173	163.08	0.53	1.08	6.84	31.06	4.65	1.834	10.6	0.025	2.62	1.254	0.55	13
00-CAS- 2175	155.04	0.77	1	7.4	24.15	6.02	2.023	10.41	0.025	2.31	1.293	0.67	12.9
00-CAS- 2176	213.77	0.81	1.05	8.02	34.25	4.46	1.989	9.34	0.19	2.56	1.509	0.59	22.4
00-CAS- 2177	476.26	0.68	1.06	7.94	28.82	5.02	2.051	9.27	0.12	2.53	1.285	0.69	15.6
00-CAS- 2178	384.64	0.93	1.34	8.28	24.03	5.76	2.087	10.99	0.08	2.83	1.294	0.77	11.9
00-CAS- 2179	155.52	0.74	1	9.06	25.53	4.54	2.299	7.64	0.62	3.28	1.676	0.25	11.7
00-CAS- 2180	177.01	0.62	1.05	7.92	28.12	5	2.1	9.47	0.13	3.35	1.501	0.56	17
00-CAS- 2181	147.13	0.58	1.3	8.21	21.52	4.57	2.287	6.13	0.13	2.56	1.351	0.75	16.5
00-CAS- 2182	146.98	0.62	1.39	7.31	28.19	5.19	2.035	9.85	0.07	2.54	1.279	0.64	14.5
00-CAS- 2183	157.71	0.88	1.53	7.27	29.48	4.92	1.995	7.36	0.06	2.68	1.328	0.72	17.5
00-CAS- 2184	151.75	0.78	1.44	8.35	31.27	4.76	2.33	7.8	0.025	2.95	1.504	0.63	14
00-CAS- 2185	167.16	0.8	1.33	9.35	33.31	5.7	2.36	9.1	0.025	3.27	1.633	0.66	19.3
00-CAS- 2187	136.88	1.03	1.44	7.57	32.1	5.26	1.959	6.72	0.13	2.69	1.206	0.51	13.8
00-CAS- 2189	173.34	0.81	1.28	9.26	36.31	5.43	2.354	8.28	0.64	3.6	1.87	0.73	14.5

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 2110	0.025	0.06	1.74	5	0.1	0.026	0.246	67.18	0.13	1.28	0.1	157.32	9.48
00-CAS- 2111	0.025	0.154	1.78	5	0.11	0.041	0.289	61.31	0.1	2.74	0.282	266.86	9.34
00-CAS- 2112	0.025	0.147	1.85	5	0.12	0.082	0.318	82.08	0.22	2.76	0.274	269.42	8.41
00-CAS- 2151	0.025	0.19	3.64	5	0.025	0.064	0.541	111.21	0.21	3.43	0.234	21.16	6.92
00-CAS- 2152	0.025	0.222	3.12	5	0.025	0.083	0.554	103.16	0.08	4.85	0.403	22.78	4.89
00-CAS- 2153	0.025	0.225	2.87	5	0.05	0.071	0.58	147.56	0.09	5.28	0.373	21.22	5.59
00-CAS- 2155	0.025	0.136	2.46	5	0.05	0.036	0.422	132.27	0.09	3.17	0.269	24.31	4.88
00-CAS- 2156	0.025	0.209	2.92	5	0.08	0.057	0.468	103.07	0.13	3.99	0.313	26.71	5.62
00-CAS- 2157	0.025	0.184	2.61	5	0.07	0.081	0.645	71.92	0.45	2.69	0.298	25.12	4.33
00-CAS- 2158	0.025	0.175	3.4	5	0.08	0.082	0.563	71.98	0.08	2.7	0.264	23.45	3.46
00-CAS- 2159	0.025	0.155	2.59	5	0.09	0.066	0.448	79.48	0.025	2.59	0.303	29.92	3.16
00-CAS- 2161	0.025	0.162	2.91	5	0.05	0.057	0.534	63.47	0.025	3.34	0.329	23.61	5.17
00-CAS- 2162	0.025	0.202	2.78	5	0.06	0.104	0.573	51.41	0.18	2.95	0.336	23.91	4.48
00-CAS- 2163	0.025	0.171	3.28	5	0.07	0.052	0.527	93.09	5.22	3.59	0.395	37.96	3.75
00-CAS- 2164	0.025	0.323	4.26	5	0.06	0.112	0.98	99.04	0.61	6.58	0.78	30.91	8.6
00-CAS- 2165	0.025	0.35	4.83	5	0.06	0.109	0.957	96.42	0.3	7.15	0.794	28.85	8.96
00-CAS- 2167	0.025	0.173	3.73	5	0.05	0.056	0.693	81.23	0.33	3.99	0.38	30.76	5.49
00-CAS- 2168	0.025	0.178	3.92	5	0.07	0.067	0.547	96.48	0.18	4.08	0.408	34.56	7.25
00-CAS- 2169	0.025	0.198	4.22	5	0.06	0.065	0.58	85.43	0.21	3.87	0.414	26.41	8.76
00-CAS- 2170	0.025	0.175	3.98	5	0.05	0.055	0.51	94.94	0.05	3.55	0.326	38.96	6.27
00-CAS- 2172	0.025	0.195	4.1	5	0.06	0.073	0.593	92.03	1.25	4	0.443	31.57	6.23
00-CAS- 2173	0.025	0.152	3.17	5	0.025	0.043	0.454	105.69	0.37	2.81	0.194	44.68	4.1
00-CAS- 2175	0.025	0.131	2.62	5	0.05	0.043	0.389	79.7	0.23	2.64	0.198	47.27	3.84
00-CAS- 2176	0.025	0.156	2.47	5	0.025	0.042	0.409	120.17	0.15	3.3	0.293	43.3	3.6
00-CAS- 2177	0.025	0.124	2.33	5	0.06	0.04	0.365	111.26	0.12	2.95	0.286	51.68	2.8
00-CAS- 2178	0.025	0.15	2.3	5	0.08	0.04	0.4	101.21	0.12	3.06	0.297	39.73	2.4
00-CAS- 2179	0.025	0.177	3.66	5	0.07	0.058	0.762	79.74	0.23	3.93	0.365	29.74	5.49
00-CAS- 2180	0.025	0.18	3.3	5	0.07	0.049	0.645	94.48	0.05	3.87	0.349	33.43	4.43
00-CAS- 2181	0.025	0.141	3	5	0.025	0.061	0.52	110.01	0.07	3.54	0.34	32.31	2.89
00-CAS- 2182	0.025	0.152	2.75	5	0.06	0.045	0.372	95.27	0.025	3.01	0.251	52.05	3.04
00-CAS- 2183	0.025	0.163	3.31	5	0.025	0.045	0.57	111.6	0.11	3.42	0.359	30.53	4.98
00-CAS- 2184	0.025	0.174	2.98	5	0.06	0.061	0.444	109.32	0.025	3.73	0.325	39.79	4.63
00-CAS- 2185	0.025	0.207	3.28	5	0.07	0.063	0.534	102.54	0.06	4.11	0.393	49.55	5.35
00-CAS- 2187	0.025	0.144	3.06	5	0.07	0.04	0.427	92.44	0.025	3.15	0.283	34.07	3.5
00-CAS- 2189	0.025	0.211	3.11	5	0.08	0.085	0.555	111.35	0.2	4.11	0.411	37.69	4.58

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 2190	0.45	0.45	1.2	28802	191	1.5	3551	7	17	39	15	34718	394
00-CAS- 2191	2.93	1.02	1.55	29269	96	1.5	3356	7	17	37	25	33619	427
00-CAS- 2192	3.39	1.32	1.38	28894	141	1.5	4517	6	15	36	15	32087	449
00-CAS- 2193	1.79	0.45	1.41	26801	193	1.5	3210	7	15	40	26	36604	515
00-CAS- 2194	0.92	0.45	1.39	32570	130	1.5	2734	6	15	40	18	32583	432
00-CAS- 2197	1.93	0.92	1.57	22912	75	1.5	3026	6	12	35	19	30815	332
00-CAS- 2198	2.18	0.9	1.45	26239	140	1.5	3874	6	15	36	17	33217	411
00-CAS- 2199	0.45	0.45	1.25	23652	104	1.5	2604	6	14	32	9	32696	461
00-CAS- 2200	0.45	0.45	1.53	32286	162	1.5	3408	7	16	42	16	35575	425
00-CAS- 2201	1.27	0.45	1.11	26462	110	1.5	3133	6	16	36	21	33274	499
00-CAS- 2202	1.17	0.45	1.1	26174	97	1.5	2479	6	13	32	15	31815	417
00-CAS- 2203	2.67	0.45	1	26288	104	1.5	2566	6	14	35	15	34205	406
00-CAS- 2204	1.1	1	1.45	25611	143	1.5	3290	6	16	38	19	33132	346
00-CAS- 2160	1.83	3.2	1.76	23596	72	1.5	2739	6	15	34	31	29382	326
00-CAS- 2166	2.04	1.57	2.27	24349	136	1.5	3072	7	16	39	16	32169	287
00-CAS- 2251	1.12	0.96	0.61	18561	54	1.5	1490	6	10	39	22	23182	361
00-CAS- 2252	0.45	0.45	1.16	25174	59	1.5	1730	7	13	44	17	29106	382
00-CAS- 2253	1.75	0.45	0.87	19101	68	1.5	3239	6	13	46	45	23045	746
00-CAS- 2254	1.32	1.74	1.93	17727	39	1.5	1491	8	11	70	24	32647	404
00-CAS- 2255	0.45	0.45	1.01	23129	66	1.5	2186	6	12	35	10	25038	339
00-CAS- 2256	0.45	0.45	1.06	23152	73	1.5	1761	6	12	36	11	25058	296
00-CAS- 2257	0.96	0.45	0.86	13538	43	1.5	2313	5	10	40	42	19163	279
00-CAS- 2258	1.2	0.45	1.04	25359	89	1.5	1713	7	15	50	24	28979	462
00-CAS- 2259	2.11	1.33	1.24	22102	67	1.5	2032	6	17	49	61	26124	369
00-CAS- 2260	0.45	0.45	0.94	30898	121	1.5	2301	10	18	68	24	40621	717
00-CAS- 2261	0.99	0.45	1.03	25723	102	1.5	1677	7	13	40	15	27986	377
00-CAS- 2262	0.45	0.45	1.14	25369	103	1.5	1388	9	16	53	19	35596	475
00-CAS- 2263	2.32	0.45	0.99	25118	80	1.5	1719	7	15	40	15	29055	373
00-CAS- 2264	0.45	0.45	1.19	21468	63	1.5	1671	6	11	35	10	24874	305
00-CAS- 2265	0.45	1.37	1.02	25982	84	1.5	2247	7	13	44	18	27790	496
00-CAS- 2266	2.19	0.45	0.79	20452	77	1.5	2270	6	15	45	17	25973	437
00-CAS- 2267	1.67	1.45	1.08	23731	85	1.5	2064	7	17	51	22	26809	475
00-CAS- 2268	1.03	0.45	0.8	22884	81	1.5	1736	6	13	37	10	26828	416
00-CAS- 2269	0.45	0.45	0.88	23177	81	1.5	2112	7	13	39	9	27896	370
00-CAS- 2270	2.77	0.45	0.96	20893	79	1.5	1501	5	12	33	13	24420	273

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 2190	12	4145	245	4	367	36	559	151	3	12	1203	112	17.5	3	41
00-CAS- 2191	13	4315	310	4	362	36	718	251	3	13	1063	107	17.5	3	41
00-CAS- 2192	11	4404	274	4	449	34	668	217	3	18	1122	108	17.5	3	41
00-CAS- 2193	16	4829	198	4	401	39	498	193	3	12	1296	111	17.5	3	42
00-CAS- 2194	13	4561	157	4	360	39	352	169	3	10	1262	102	17.5	3	38
00-CAS- 2197	9	3130	175	4	415	28	525	190	3	12	1216	114	17.5	3	31
00-CAS- 2198	12	4399	257	4	411	39	406	135	3	15	1306	116	17.5	3	40
00-CAS- 2199	14	4300	333	4	226	28	263	109	2	11	1228	95	17.5	3	42
00-CAS- 2200	13	5112	204	4	381	40	400	149	3	15	1352	119	17.5	4	43
00-CAS- 2201	14	3844	281	4	249	38	477	185	3	13	1168	104	17.5	3	63
00-CAS- 2202	12	4088	250	4	214	29	740	271	3	10	940	91	17.5	3	73
00-CAS- 2203	13	3614	180	4	263	32	373	184	3	12	1169	105	17.5	3	43
00-CAS- 2204	12	4809	221	4	391	35	392	166	3	13	1270	116	17.5	3	34
00-CAS- 2160	10	3600	164	4	401	39	511	196	3	11	1225	110	17.5	3	40
00-CAS- 2166	10	4521	219	4	471	34	381	142	3	15	1355	125	17.5	4	35
00-CAS- 2251	16	4029	115	4	139	30	305	134	2	8	1019	58	17.5	3	38
00-CAS- 2252	22	4502	165	4	135	31	843	134	3	11	1061	70	17.5	3	81
00-CAS- 2253	33	6599	184	4	218	36	539	140	3	12	1318	51	17.5	5	42
00-CAS- 2254	20	4831	163	4	114	31	280	83	3	10	1290	91	17.5	2	44
00-CAS- 2255	10	3629	196	4	318	31	389	247	3	11	1168	78	17.5	3	44
00-CAS- 2256	10	3498	151	4	251	33	401	245	3	9	1089	78	17.5	3	40
00-CAS- 2257	17	4271	133	4	247	31	257	70	3	12	1063	52	17.5	4	33
00-CAS- 2258	19	5256	188	4	149	41	503	148	4	10	1150	73	17.5	4	51
00-CAS- 2259	12	4497	160	4	199	61	614	142	3	11	1127	80	17.5	4	40
00-CAS- 2260	40	7624	244	4	152	49	402	151	4	16	1402	79	17.5	3	64
00-CAS- 2261	14	3907	177	4	206	40	546	318	3	9	1128	81	17.5	3	52
00-CAS- 2262	32	5335	194	4	108	42	651	209	3	9	1071	77	17.5	3	68
00-CAS- 2263	16	3304	167	4	142	42	1007	142	2	10	888	75	17.5	2	65
00-CAS- 2264	10	2964	157	4	193	24	507	159	3	10	1060	76	17.5	3	41
00-CAS- 2265	19	3937	180	4	190	38	490	145	3	12	1242	80	17.5	4	46
00-CAS- 2266	16	4634	177	4	171	31	365	89	3	18	1361	75	17.5	3	39
00-CAS- 2267	16	4992	181	4	195	44	508	141	3	15	1186	77	17.5	3	49
00-CAS- 2268	16	3524	146	4	145	30	306	114	2	11	1123	70	17.5	3	43
00-CAS- 2269	17	3487	131	4	198	29	424	110	2	13	1143	75	17.5	3	34
00-CAS- 2270	16	2896	114	4	131	27	409	123	2	9	884	63	17.5	2	47

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 2190	0.13	24962.1	N.M.	190.03	0.32	2533.53	0.125	20.516	12.88	36.45	0.943	12.46
00-CAS- 2191	0.03	27692.7	N.M.	96.77	1.11	2727.86	0.107	22.564	14.11	37.02	1.104	22.32
00-CAS- 2192	0.08	27112.3	N.M.	143.33	0.8	3650.9	0.062	23.181	11.84	36.04	0.929	12.56
00-CAS- 2193	0.08	26338.7	N.M.	210.76	0.75	2623.22	0.052	21.612	12.38	41.16	1.212	24.93
00-CAS- 2194	0.13	33895.5	N.M.	139.7	0.64	2228.95	0.025	17.518	12.92	41.67	1.137	17.86
00-CAS- 2197	0.01	21720.1	N.M.	77.9	0.51	2527.46	0.025	22.509	9.41	34.5	0.686	16.8
00-CAS- 2198	0.2	23866.6	N.M.	145.03	0.58	3240.31	0.239	20.615	11.6	35.34	1.152	15.73
00-CAS- 2199	0.06	21622.9	N.M.	108.41	0.48	2165.45	0.113	18.873	10.52	30.89	1.287	7.79
00-CAS- 2200	0.04	32674.6	N.M.	167.72	1.16	3110.53	0.1	25.935	15.29	49.74	1.07	17.06
00-CAS- 2201	0.14	23727.2	N.M.	119.49	0.61	2391.12	0.075	19.727	13.34	35.71	1.468	19.57
00-CAS- 2202	0.01	23324.3	N.M.	97.82	0.73	1981.42	0.094	20.488	10.56	31.3	1.457	13.91
00-CAS- 2203	0.02	21748.1	N.M.	103.53	0.42	1782.31	0.071	17.643	10.73	32.27	1.328	12.39
00-CAS- 2204	0.01	23486.3	N.M.	148.64	0.18	2413.53	0.025	24.629	13	37.01	0.941	17.35
00-CAS- 2160	0.1	20027.3	N.M.	67.7	0.54	2229.8	0.061	23.546	11.44	30.23	0.872	27.45
00-CAS- 2166	0.09	20987.6	N.M.	129.31	0.5	2478.15	0.025	29.948	12.62	33.82	0.871	13.67
00-CAS- 2251	0.09	14301.3	N.M.	53.56	0.57	1154.58	0.05	17.865	7.04	35.42	2.786	20.02
00-CAS- 2252	0.1	18795.1	N.M.	52.68	0.65	1342.84	0.065	21.909	9.43	37.76	3.286	13.83
00-CAS- 2253	0.07	15412.2	N.M.	64.91	0.65	2584.05	0.052	27.204	9.63	41.32	3.225	40.85
00-CAS- 2254	0.09	14639.5	N.M.	36.9	0.52	1277.24	0.08	22.839	7.06	65.67	6.901	22.49
00-CAS- 2255	0.14	17408.9	N.M.	63.7	0.58	1690.69	0.063	30.011	8.8	29.67	1.402	8.67
00-CAS- 2256	0.25	18734	N.M.	67.36	0.56	1440.15	0.074	27.479	8.78	31.3	1.272	9.3
00-CAS- 2257	0.1	11685.6	N.M.	40.34	0.56	1979.99	0.025	23.648	7.82	36.89	2.439	40.02
00-CAS- 2258	0.07	22231.3	N.M.	83.46	0.62	1572.66	0.064	34.424	11.59	45.32	2.707	23.24
00-CAS- 2259	0.11	19746	N.M.	67.28	0.56	1959.5	0.025	52.026	15.74	50.52	6.753	65.91
00-CAS- 2260	0.15	24498.7	N.M.	111.84	0.58	1771.26	0.079	23.398	12.59	57.04	3.864	20.16
00-CAS- 2261	0.12	20350.8	N.M.	93.26	0.67	1342.35	0.071	25.51	9.99	34.56	1.907	12.64
00-CAS- 2262	0.09	20465.5	N.M.	97.66	0.78	1074.95	0.063	30.71	11.99	47.38	2.966	17.23
00-CAS- 2263	0.14	21819.4	N.M.	76.97	0.86	1448.93	0.093	17.78	12.46	37.62	6.465	14.1
00-CAS- 2264	0.08	19006.8	N.M.	61.78	0.56	1338.02	0.025	24.793	8.89	32.75	1.757	9.36
00-CAS- 2265	0.16	24034	N.M.	87.02	0.92	2010.75	0.083	31.481	10.98	43.33	3.107	17.79
00-CAS- 2266	0.08	17421.9	N.M.	73.23	0.35	1903.89	0.058	26.377	11.7	41.48	2.008	15.57
00-CAS- 2267	0.08	21018.2	N.M.	84.37	0.66	1740.96	0.071	27.812	13.88	47.49	2.224	21.48
00-CAS- 2268	0.07	20484.2	N.M.	78.99	0.79	1462.61	0.069	19.697	10.09	35.27	2.613	8.4
00-CAS- 2269	0.11	19083.6	N.M.	78.57	0.34	1640.41	0.025	18.009	9.73	34.88	1.462	7.52
00-CAS- 2270	0.1	17214.7	N.M.	76.98	0.61	1180.62	0.058	16.256	9.4	30.06	3.672	10.92

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 2190	0.872	0.436	0.287	25503.9	5.82	1.17	0.08	0.025	0.165	8.871	11.69	0.071	3490.3
00-CAS- 2191	0.804	0.326	0.258	28230.3	4.92	1.056	0.05	0.08	0.137	9.016	13.63	0.068	3955.55
00-CAS- 2192	0.797	0.362	0.279	25638.6	5.69	1.114	0.025	0.06	0.146	8.39	11.71	0.052	4084.09
00-CAS- 2193	0.643	0.348	0.259	29797	6.9	1.06	0.08	0.025	0.134	9.149	17.03	0.051	4804.5
00-CAS- 2194	0.849	0.336	0.28	27482.4	6.38	1.075	0.13	0.025	0.121	8.704	16.79	0.046	4615.78
00-CAS- 2197	0.747	0.304	0.229	24564.5	4.28	1.207	0.08	0.07	0.134	8.151	9.68	0.057	2858.12
00-CAS- 2198	0.814	0.381	0.278	26730	5.77	1.285	0.1	0.025	0.157	9.327	12.3	0.043	4040.66
00-CAS- 2199	0.582	0.344	0.257	25850.8	6.29	0.975	0.06	0.025	0.105	9.724	14.42	0.027	3942.67
00-CAS- 2200	0.753	0.382	0.216	32224.7	6.76	1.127	0.09	0.025	0.148	9.244	14.91	0.034	5515.19
00-CAS- 2201	0.767	0.309	0.256	27786.4	6.13	1.22	0.025	0.025	0.136	9.879	14.71	0.033	3460.03
00-CAS- 2202	0.671	0.242	0.231	24646.8	6.09	1.034	0.025	0.07	0.095	9.887	14.6	0.034	3817.24
00-CAS- 2203	0.667	0.308	0.198	25036.6	5.76	1.15	0.05	0.025	0.1	8.688	13.33	0.035	3111.11
00-CAS- 2204	0.686	0.37	0.165	27083.2	5.98	0.999	0.06	0.025	0.109	8.612	11.84	0.026	4324.7
00-CAS- 2160	0.622	0.351	0.239	23076.3	4.16	1.093	0.1	0.025	0.107	9.211	10.01	0.02	3046.57
00-CAS- 2166	0.834	0.336	0.255	24182.3	4.69	1.22	0.11	0.025	0.111	9.034	10.76	0.039	3921.1
00-CAS- 2251	0.664	0.284	0.232	17253.1	3.79	1.013	0.06	0.06	0.097	9.386	16.31	0.026	3251.21
00-CAS- 2252	0.684	0.266	0.245	19381.2	3.76	1.103	0.11	0.08	0.106	10.253	20.92	0.029	3187.05
00-CAS- 2253	0.987	0.441	0.369	16798.6	3.44	1.665	0.11	0.025	0.162	14.361	31.98	0.047	5166.64
00-CAS- 2254	0.585	0.256	0.222	24892.4	5.71	1.178	0.12	0.05	0.093	11.909	21.33	0.025	3964.72
00-CAS- 2255	0.859	0.417	0.244	17447.9	3.24	1.096	0.15	0.06	0.142	8.685	9.62	0.039	2745.13
00-CAS- 2256	0.711	0.354	0.234	18360.4	3.37	0.996	0.18	0.08	0.145	8.15	9.5	0.037	2745.68
00-CAS- 2257	0.891	0.356	0.258	14406.5	2.69	1.323	0.12	0.025	0.152	11.914	18.29	0.038	3550.03
00-CAS- 2258	0.866	0.397	0.343	21325.3	4.33	1.455	0.13	0.05	0.175	12.681	19.53	0.041	4291.34
00-CAS- 2259	0.92	0.381	0.29	22909.4	3.96	1.251	0.18	0.06	0.141	9.226	14.95	0.048	4179.87
00-CAS- 2260	0.678	0.294	0.232	28480.2	5.28	1.172	0.1	0.025	0.114	10.802	35.91	0.034	5778.46
00-CAS- 2261	0.798	0.376	0.244	20005.4	3.91	1.127	0.16	0.06	0.129	8.773	13.36	0.05	2992.39
00-CAS- 2262	0.792	0.345	0.285	25957.8	4.86	1.397	0.1	0.05	0.156	11.473	31.17	0.04	4206.86
00-CAS- 2263	0.489	0.265	0.208	21675.4	4.17	0.955	0.07	0.06	0.091	8.069	16.81	0.029	2778.66
00-CAS- 2264	0.791	0.346	0.278	18831.4	3.76	1.245	0.12	0.06	0.151	10.405	11.2	0.041	2453.65
00-CAS- 2265	0.956	0.445	0.292	21701	4.48	1.389	0.22	0.06	0.167	11.291	20.08	0.041	3552.82
00-CAS- 2266	0.669	0.273	0.257	20381.5	3.91	1.2	0.1	0.07	0.111	11.321	16.52	0.03	3776.3
00-CAS- 2267	0.756	0.291	0.235	20303.5	3.94	1.205	0.16	0.08	0.11	10.387	17.94	0.038	4160.45
00-CAS- 2268	0.681	0.329	0.232	20176.6	4.17	1.055	0.08	0.025	0.12	9.637	16.44	0.033	2962.08
00-CAS- 2269	0.625	0.251	0.214	19349.3	3.77	1.024	0.14	0.025	0.111	8.681	17.19	0.039	2752.45
00-CAS- 2270	0.552	0.191	0.187	17595.4	3.91	0.874	0.05	0.025	0.091	8.449	14.41	0.032	2315.39

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 2190	182.44	0.83	1.38	8.65	30.3	5.58	2.089	7.06	0.16	2.37	1.711	0.61	12.4
00-CAS- 2191	274.09	1.54	1.32	7.31	31.65	5.15	2.066	8.29	0.06	2.78	1.424	0.58	12.3
00-CAS- 2192	240.42	0.65	1.32	7.59	30.84	4.96	1.909	7.99	0.06	2.5	1.333	0.51	17.9
00-CAS- 2193	176.96	1.22	1.56	7.92	35.24	5.14	2.08	9.58	0.025	2.97	1.33	0.67	12.7
00-CAS- 2194	142.47	1.17	1.6	7.57	35.66	5.04	2.016	8.79	0.025	3.6	1.356	0.72	11.3
00-CAS- 2197	144.47	0.54	1.52	7.34	25.34	3.82	1.862	5.04	0.025	2.86	1.366	0.59	11.8
00-CAS- 2198	224.9	0.72	1.45	8.36	34.35	5.23	1.991	8.44	0.61	2.72	1.63	0.6	16.1
00-CAS- 2199	290.96	0.88	1.3	8.38	23.56	6.36	2.21	10.3	0.24	2.38	1.517	0.85	12.2
00-CAS- 2200	217.95	0.66	1.47	8.06	47.2	4.53	2.081	8.8	0.09	3.64	1.41	0.71	16.7
00-CAS- 2201	240.29	0.74	1.5	8.5	36.02	6.4	2.149	13.29	0.08	2.74	1.643	0.92	13
00-CAS- 2202	225.26	0.97	1.6	8.04	24.91	7.18	2.194	8.38	0.11	2.33	1.429	0.67	10.1
00-CAS- 2203	140.94	0.94	1.52	7.55	26.66	6.73	2.061	8.2	0.025	2.44	1.364	0.7	11.6
00-CAS- 2204	195.1	0.81	1.48	7.83	32.16	4.61	1.856	5.14	0.07	2.53	1.203	0.7	13.6
00-CAS- 2160	140.68	0.92	1.4	8.48	32.74	5.46	2.203	5.95	0.06	2.77	1.299	0.62	10.1
00-CAS- 2166	183.45	0.55	1.07	7.89	28.07	4.72	2.214	4.76	0.025	3.03	1.515	0.59	14.3
00-CAS- 2251	88.02	0.6	1.44	7.4	24.54	7.21	2.026	7.08	0.05	2.27	1.436	0.7	7.5
00-CAS- 2252	129.64	0.56	1.48	7.73	23.97	6.39	2.251	11.24	0.09	2.64	1.502	0.56	9.3
00-CAS- 2253	143.74	0.39	1.59	11.28	28.51	7.19	3.295	13.6	0.06	3.07	2.08	0.52	10.9
00-CAS- 2254	134.7	2.43	1.6	9.12	25.47	7.37	2.664	10.2	0.12	2.73	1.516	1.2	10.4
00-CAS- 2255	152.06	0.55	1.19	7	25.82	4.76	2.02	8.12	0.06	2.52	1.452	0.25	11
00-CAS- 2256	121.65	0.49	1.31	6.81	26.33	4.61	1.872	7.56	0.13	2.66	1.172	0.25	9.2
00-CAS- 2257	111.59	0.38	0.84	9.24	25.92	5.75	2.62	7.78	0.08	2.88	1.602	0.25	12
00-CAS- 2258	152.77	0.7	1.44	9.64	34.51	6.02	2.803	12.22	0.08	3.91	1.806	0.68	9.3
00-CAS- 2259	139.39	0.47	1.39	8.45	61.17	4.63	2.104	10.2	0.09	3.97	1.554	0.6	10.8
00-CAS- 2260	186.16	0.84	1.88	8.75	38.16	7.16	2.37	16.79	0.1	3.86	1.453	0.88	14.5
00-CAS- 2261	133.95	0.59	1.16	7.63	31.92	5.21	2.164	9.98	0.07	3	1.405	0.52	8.7
00-CAS- 2262	147.66	0.83	1.5	9.69	33.88	8.73	2.544	14.13	0.12	3.15	1.591	0.69	8.1
00-CAS- 2263	140.61	0.63	1.38	6.81	37.4	6.3	1.836	12.14	0.08	2.58	1.22	0.62	10.1
00-CAS- 2264	134.66	0.54	0.99	8.09	21.24	4.75	2.331	8.88	0.06	3.18	1.501	0.59	10.2
00-CAS- 2265	157.39	0.8	1.74	9.53	35.63	5.6	2.603	12.72	0.09	3.79	1.741	0.73	12.3
00-CAS- 2266	140.68	0.42	1.09	8.4	26.61	5.64	2.462	12.04	0.07	3.09	1.756	0.65	17.8
00-CAS- 2267	151.33	0.47	1.28	8.66	38.12	5.18	2.341	12.36	0.08	3.3	1.643	0.6	14.5
00-CAS- 2268	121.41	0.61	1.53	7.27	25.96	6.07	2.193	12.7	0.07	2.49	1.473	0.62	11
00-CAS- 2269	110.34	0.55	1.4	7.01	23.46	4.84	1.973	8.84	0.07	2.43	1.204	0.54	12.8
00-CAS- 2270	92.65	0.54	1.13	6.89	22.12	6.52	1.965	8.6	0.025	2.27	1.274	0.72	8.5

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 2190	0.025	0.182	3.12	5	0.08	0.075	0.554	94.56	0.13	3.43	0.304	34.04	4.26
00-CAS- 2191	0.025	0.167	2.69	5	0.06	0.056	0.454	106.3	0.13	3.15	0.271	36.38	2.73
00-CAS- 2192	0.025	0.183	2.41	5	0.06	0.047	0.434	103.83	0.025	3.53	0.327	35.59	3.19
00-CAS- 2193	0.025	0.154	2.7	5	0.07	0.046	0.43	110.98	0.06	3.32	0.297	38.53	5.47
00-CAS- 2194	0.025	0.179	2.97	5	0.07	0.058	0.486	109.2	0.09	3.54	0.383	36.15	7.18
00-CAS- 2197	0.025	0.167	2.64	5	0.025	0.049	0.407	111.36	0.13	3.55	0.316	26.35	4.93
00-CAS- 2198	0.025	0.144	2.5	5	0.07	0.046	0.485	110.51	0.4	3.73	0.359	36.18	4.93
00-CAS- 2199	0.025	0.134	2.78	5	0.1	0.041	0.414	90.48	0.21	2.86	0.225	36.77	4.37
00-CAS- 2200	0.025	0.172	2.98	5	0.07	0.036	0.461	139.06	0.17	3.79	0.252	40.47	5.39
00-CAS- 2201	0.025	0.148	2.68	5	0.08	0.038	0.459	104.16	0.12	3.15	0.291	57.37	2.83
00-CAS- 2202	0.025	0.144	2.68	5	0.08	0.035	0.421	89.8	0.16	2.71	0.259	69.75	2.57
00-CAS- 2203	0.025	0.118	2.58	5	0.07	0.037	0.415	92.56	0.13	2.76	0.28	36.97	3.38
00-CAS- 2204	0.025	0.168	2.79	5	0.025	0.046	0.402	110.43	0.12	3	0.241	30.04	5.07
00-CAS- 2160	0.025	0.149	3.87	N.M.	0.05	0.028	0.533	85.09	0.78	3.31	0.28	31.8	4.44
00-CAS- 2166	0.025	0.138	3.52	N.M.	0.06	0.031	0.489	96.61	0.48	3.57	0.317	27.98	4.36
00-CAS- 2251	0.025	0.148	3.11	N.M.	0.09	0.039	2.015	50.28	0.19	2.48	0.24	31.33	2.5
00-CAS- 2252	0.025	0.134	4.69	N.M.	0.08	0.038	1.851	52.32	0.3	2.7	0.275	68.12	3.12
00-CAS- 2253	0.025	0.209	4.55	N.M.	0.14	0.053	3.387	41.72	0.28	4.45	0.403	32.49	4.57
00-CAS- 2254	0.025	0.127	4.78	N.M.	0.12	0.033	0.664	77.64	1.5	2.23	0.209	38.53	4.11
00-CAS- 2255	0.025	0.166	4.57	N.M.	0.07	0.053	1.094	59.88	0.15	3.22	0.305	35.65	5.24
00-CAS- 2256	0.025	0.156	4.44	N.M.	0.06	0.044	1.15	65.83	0.025	3.07	0.336	33.32	4.95
00-CAS- 2257	0.025	0.196	4.16	N.M.	0.09	0.058	0.826	48.3	0.025	3.76	0.289	28.48	4.41
00-CAS- 2258	0.025	0.194	4.5	N.M.	0.11	0.053	0.996	64.88	0.025	3.83	0.316	44.42	5.38
00-CAS- 2259	0.025	0.194	5.06	N.M.	0.1	0.061	0.745	81.42	0.025	3.5	0.356	37.37	5.42
00-CAS- 2260	0.025	0.149	4.17	N.M.	0.11	0.031	0.868	61.49	0.025	2.71	0.234	51.22	4.9
00-CAS- 2261	0.025	0.173	4.8	N.M.	0.08	0.052	0.892	65.46	0.025	3.26	0.315	43.24	5.96
00-CAS- 2262	0.025	0.182	4.64	N.M.	0.08	0.057	3.566	63.32	0.025	3.39	0.266	59.99	3.99
00-CAS- 2263	0.025	0.119	3.84	N.M.	0.08	0.037	0.551	65.47	0.025	2.34	0.166	58.49	2.97
00-CAS- 2264	0.025	0.164	3.85	N.M.	0.06	0.049	0.678	65.09	0.025	3.5	0.27	37.84	4.29
00-CAS- 2265	0.025	0.193	4.98	N.M.	0.11	0.047	1.418	73.59	0.025	3.86	0.304	43.06	6.91
00-CAS- 2266	0.025	0.156	4.65	N.M.	0.08	0.046	0.727	66.89	0.025	2.87	0.251	32.85	4.25
00-CAS- 2267	0.025	0.145	4.75	N.M.	0.07	0.041	0.72	67.17	0.025	2.78	0.232	42.48	4.81
00-CAS- 2268	0.025	0.148	3.26	N.M.	0.09	0.041	0.522	62.93	0.025	2.85	0.219	38.2	3.6
00-CAS- 2269	0.025	0.131	3.27	N.M.	0.06	0.042	0.674	63.04	0.025	2.84	0.248	28.36	4.46
00-CAS- 2270	0.025	0.117	2.98	N.M.	0.08	0.034	0.446	52.53	0.025	2.15	0.22	40.63	2.84

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 2271	1.54	0.45	1.34	20974	65	1.5	1617	8	16	63	54	34338	780
00-CAS- 2272	1.77	0.45	1.16	19998	64	1.5	1476	8	15	60	51	33446	735
00-CAS- 2273	2.22	0.45	0.96	14655	43	1.5	1329	5	8	28	8	20130	147
00-CAS- 2274	1	0.45	1.18	23488	129	1.5	2769	8	17	60	31	36036	681
00-CAS- 2275	0.45	0.45	0.9	29267	155	1.5	2354	7	16	38	13	30240	467
00-CAS- 2276	0.45	0.45	0.87	30642	165	1.5	2475	7	18	42	9	33904	565
00-CAS- 2302	1.53	5.33	3.85	23379	58	1.5	8292	9	22	136	39	36734	440
00-CAS- 2304	1.16	4.4	3	21180	61	1.5	8140	10	27	232	40	41462	548
00-CAS- 2305	1.96	1.59	1.41	17704	55	1.5	4088	7	16	91	22	25769	322
00-CAS- 2306	1.66	3.17	2.48	20183	61	1.5	6053	8	21	164	30	32498	316
00-CAS- 2307	0.45	1.81	3.31	16201	55	1.5	4424	6	17	95	20	23308	262
00-CAS- 2308	0.97	3.46	2.89	24732	62	1.5	6033	8	22	148	39	31856	403
00-CAS- 2309	0.45	3.72	2.17	34413	69	1.5	2128	9	20	100	34	38722	346
00-CAS- 2310	0.45	2.25	1.64	16329	60	1.5	4563	6	13	56	21	23062	256
00-CAS- 2311	1.26	1.62	1.69	21111	71	1.5	3848	7	17	64	26	28349	263
00-CAS- 2312	0.45	2.17	2.23	24267	70	1.5	5284	8	20	90	31	31939	323
00-CAS- 2313	0.45	1.17	1.27	21408	61	1.5	4665	7	16	86	28	26608	292
00-CAS- 2314	1.28	4.54	3.11	22660	57	1.5	7076	9	28	176	42	37014	395
00-CAS- 2315	1.51	5.35	3.96	21498	52	1.5	8615	11	29	325	35	43371	483
00-CAS- 2316	2.96	2.53	2.05	22915	66	1.5	3448	9	22	141	28	38562	291
00-CAS- 2317	0.45	3.88	5.76	32774	65	1.5	2791	10	25	156	32	41858	347
00-CAS- 2320	0.45	1.65	1.38	26206	78	1.5	3237	8	21	129	35	33689	300
00-CAS- 2321	0.45	3.9	1.57	18463	57	1.5	2800	7	17	130	21	29339	299
00-CAS- 2322	0.45	2.47	1.86	16590	50	1.5	4627	7	18	106	36	28631	283
00-CAS- 2323	0.45	1.85	1.66	19513	47	1.5	4515	7	16	147	33	29372	260
00-CAS- 2324	0.45	1.51	2.01	27165	54	1.5	4204	9	25	191	21	41070	298
00-CAS- 2325	0.45	1.76	1.41	27514	81	1.5	3495	8	19	107	19	32094	360
00-CAS- 2326	0.45	1.16	1.75	20016	61	1.5	2284	6	14	58	14	29606	219
00-CAS- 2327	0.45	2.81	4.65	23779	64	1.5	4848	9	26	179	30	37113	336
00-CAS- 2330	0.45	2.1	2.26	24599	55	1.5	2578	9	22	180	20	36268	259
00-CAS- 2334	1.04	2.89	3.05	19270	50	1.5	5045	8	20	95	35	30594	344
00-CAS- 2335	0.45	1.11	1.71	21324	75	1.5	3320	7	16	82	21	30310	312
00-CAS- 2337	0.45	2.44	2.77	24881	120	1.5	3841	9	25	175	47	36141	313
00-CAS- 2341	1.01	2.36	2.44	17713	77	1.5	4372	7	16	88	28	30504	303
00-CAS- 2342	1.33	4.69	3.1	24447	66	1.5	5072	9	26	173	36	38254	312

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 2271	38	7046	258	4	110	51	434	154	4	9	1309	74	17.5	3	58
00-CAS- 2272	35	6606	248	4	123	49	434	155	3	8	1203	72	17.5	3	55
00-CAS- 2273	10	3118	97	4	176	17	191	63	3	8	1028	59	17.5	4	31
00-CAS- 2274	42	7101	372	4	175	43	1012	122	4	14	1402	77	17.5	5	56
00-CAS- 2275	18	3814	174	4	248	43	563	133	3	16	1190	79	17.5	3	56
00-CAS- 2276	21	3890	178	4	198	41	546	156	3	16	1246	88	17.5	3	58
00-CAS- 2302	13	15257	344	4	1796	113	619	81	4	28	1614	132	17.5	7	41
00-CAS- 2304	13	19336	406	4	1978	165	663	83	7	24	1405	137	17.5	7	46
00-CAS- 2305	17	10834	164	4	874	86	297	72	2	13	1300	75	17.5	3	40
00-CAS- 2306	13	15949	251	4	1495	134	375	77	3	19	1461	104	17.5	4	37
00-CAS- 2307	13	9842	209	4	866	87	327	81	3	14	1137	68	17.5	4	29
00-CAS- 2308	11	13070	200	4	1249	134	521	90	3	25	1294	102	17.5	5	35
00-CAS- 2309	16	7761	137	4	415	100	411	362	3	9	1026	113	17.5	3	54
00-CAS- 2310	12	9308	195	4	870	53	409	89	3	13	1130	81	17.5	4	28
00-CAS- 2311	13	9052	153	4	709	63	366	96	2	15	1310	88	17.5	4	32
00-CAS- 2312	13	10835	203	4	965	80	439	91	3	21	1473	102	17.5	5	36
00-CAS- 2313	18	10645	188	4	956	91	305	70	3	16	1365	69	17.5	4	40
00-CAS- 2314	11	14645	331	4	1371	142	471	88	5	24	1452	123	17.5	6	39
00-CAS- 2315	10	21071	502	4	1972	178	749	93	9	26	1251	150	17.5	9	46
00-CAS- 2316	14	9361	191	4	611	119	326	85	3	14	1368	119	17.5	4	36
00-CAS- 2317	17	9070	218	4	460	136	542	279	3	10	1104	117	17.5	3	46
00-CAS- 2320	15	9917	174	4	566	164	396	117	3	15	1245	93	17.5	3	38
00-CAS- 2321	13	9643	195	4	486	104	313	119	2	9	1074	85	17.5	3	45
00-CAS- 2322	12	10940	231	4	917	90	412	57	3	15	1112	86	17.5	5	32
00-CAS- 2323	12	10084	190	4	888	115	293	89	5	15	1271	78	17.5	4	37
00-CAS- 2324	16	8697	309	4	759	131	326	138	3	13	1390	120	17.5	3	52
00-CAS- 2325	15	7595	181	4	482	123	316	95	3	16	1302	91	17.5	3	53
00-CAS- 2326	11	5362	117	4	308	53	264	87	2	11	1076	95	17.5	2	39
00-CAS- 2327	13	11341	221	4	886	167	329	94	3	21	1420	126	17.5	3	38
00-CAS- 2330	12	7439	145	4	430	138	228	118	2	9	1266	110	17.5	2	42
00-CAS- 2334	12	10705	290	4	920	97	428	69	3	19	1278	103	17.5	5	42
00-CAS- 2335	15	8160	175	4	557	87	424	94	2	17	1132	91	17.5	3	43
00-CAS- 2337	14	11566	204	4	720	167	485	107	3	14	1192	111	17.5	4	48
00-CAS- 2341	12	10152	212	4	835	108	471	69	3	17	1111	102	17.5	4	36
00-CAS- 2342	11	13692	254	4	986	142	403	74	4	24	1483	133	17.5	4	39

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 2271	0.15	18038.5	N.M.	68.94	0.5	1357.15	0.065	31.252	12.61	59.18	5.433	54.05
00-CAS- 2272	0.21	18120.6	N.M.	63.42	0.58	1229.37	0.087	28.854	11.9	56.91	5.109	50.2
00-CAS- 2273	0.08	12219.8	N.M.	40.86	0.48	1050.42	0.052	22.254	5.3	25.51	1.578	7.3
00-CAS- 2274	0.1	19114.3	N.M.	121.96	0.59	2088.82	0.063	56.597	12	53.54	3.176	26.24
00-CAS- 2275	0.12	23435.7	N.M.	142.96	0.76	1780.05	0.068	18.945	12.57	34.06	2.269	10.12
00-CAS- 2276	0.12	26271.6	N.M.	159.16	0.76	2034.86	0.089	19.209	15.03	40.42	2.35	7.54
00-CAS- 2302	0.08	20467.6	N.M.	58.47	0.5	7076.6	0.025	30.785	17.9	131.65	0.776	35.56
00-CAS- 2304	0.05	16797.3	N.M.	55.46	0.28	6390.14	0.025	27.107	19.69	206.66	0.716	34.09
00-CAS- 2305	0.06	14404	N.M.	53.9	0.45	3208.12	0.025	15.09	12.11	85.26	1.059	19.14
00-CAS- 2306	0.14	16115.6	N.M.	60.15	0.21	4845.85	0.025	15.551	15.37	152.57	0.726	26.09
00-CAS- 2307	0.08	14505.6	N.M.	54.76	0.44	3765.29	0.067	17.66	14.36	96.03	0.858	18.22
00-CAS- 2308	0.05	20910.5	N.M.	59.89	0.1	4839.97	0.057	16.353	16.89	141.39	0.664	35.16
00-CAS- 2309	0.06	28159.5	N.M.	68.17	0.37	1658.09	0.108	13.941	15.28	94.88	0.961	30.65
00-CAS- 2310	0.06	15238.1	N.M.	62.29	0.46	3996.48	0.087	16.153	11.26	57.26	0.77	20.32
00-CAS- 2311	0.04	16820.5	N.M.	67.12	0.23	3074.31	0.025	17.049	12.8	59.47	0.635	22.16
00-CAS- 2312	0.15	20243.2	N.M.	67.06	0.54	4167.88	0.051	20.676	15.02	78.19	0.734	26.07
00-CAS- 2313	0.03	20453.5	N.M.	59.72	0.51	4188.31	0.054	15.046	11.89	84.09	1.022	26.38
00-CAS- 2314	0.06	22443.6	N.M.	57.32	0.81	6876.89	0.051	24.239	23.59	181.82	0.697	40.33
00-CAS- 2315	0.05	18767.1	N.M.	51.49	0.3	7571.01	0.025	33.486	23.19	314.33	0.592	31.4
00-CAS- 2316	0.06	19644	N.M.	66.42	0.13	2971.61	0.025	18.302	17.71	137.71	0.731	25.67
00-CAS- 2317	0.04	30161.9	N.M.	65.81	0.41	2448.88	0.139	16.032	20.25	153.39	0.916	30.98
00-CAS- 2320	0.06	23610.8	N.M.	75.44	0.49	2625.93	0.056	15.486	16.73	120.95	0.888	31.65
00-CAS- 2321	0.05	16746.1	N.M.	59.14	0.39	2356.91	0.09	13.464	14.06	124.13	0.994	19.28
00-CAS- 2322	0.04	15117.9	N.M.	47.47	0.5	3933.55	0.025	18.211	14.35	104.14	0.689	34.14
00-CAS- 2323	0.04	16674	N.M.	46.81	0.28	3629.84	0.052	16.983	12.16	133.92	0.737	29.56
00-CAS- 2324	0.06	24638.2	N.M.	50.09	0.42	3418.64	0.084	14.4	19.18	170.27	0.712	18.58
00-CAS- 2325	0.07	25804.9	N.M.	82.19	0.52	2991.96	0.069	15.721	14.9	99.96	1.142	16.26
00-CAS- 2326	0.08	20048.2	N.M.	64.08	0.64	2136.86	0.058	13.566	10.8	56.82	0.767	12.63
00-CAS- 2327	0.05	23562.8	N.M.	69.24	0.48	4337.7	0.025	11.808	21.48	172.69	0.968	28.96
00-CAS- 2330	0.04	25262	N.M.	54.79	0.67	2373.62	0.065	11.314	18.1	177.67	0.725	19.29
00-CAS- 2334	0.05	18178.3	N.M.	49.02	0.51	4328.56	0.05	26.954	15.19	88.64	0.79	32.32
00-CAS- 2335	0.18	22516	N.M.	74.79	0.59	2995.05	0.025	15.177	12.26	77.87	0.867	20.18
00-CAS- 2337	0.08	25308.5	N.M.	119.21	0.4	3421.78	0.062	13.292	20.32	167.24	0.739	44.13
00-CAS- 2341	0.06	18136.3	N.M.	78.25	0.21	4000.12	0.025	17.738	12.59	87.07	0.809	25.94
00-CAS- 2342	0.05	23928.5	N.M.	65.42	0.46	4440.02	0.025	20.975	20.6	164.06	0.643	33.38

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 2271	0.761	0.345	0.276	25996.2	4.78	1.524	0.13	0.06	0.129	13.778	38.29	0.038	5911.02
00-CAS- 2272	0.726	0.257	0.226	26033.6	4.69	1.425	0.06	0.08	0.122	13.001	35.15	0.026	5575.88
00-CAS- 2273	1.008	0.409	0.297	14541.2	2.85	1.488	0.09	0.025	0.159	11.428	10.64	0.049	2507.61
00-CAS- 2274	1.184	0.479	0.385	25225.9	5.08	2.273	0.12	0.05	0.19	21.947	37.48	0.042	5450.15
00-CAS- 2275	0.738	0.327	0.273	21084.7	5.1	1.049	0.15	0.06	0.114	9.18	18.39	0.039	2982.8
00-CAS- 2276	0.669	0.389	0.251	24603.9	5.55	1.162	0.18	0.025	0.11	8.925	20.98	0.035	3226.48
00-CAS- 2302	1.32	0.645	0.328	27894	3.87	1.853	0.2	0.025	0.259	9.543	12.66	0.066	12237.2
00-CAS- 2304	1.344	0.699	0.363	26967.8	3.38	1.935	0.15	0.025	0.278	10.378	11.31	0.084	12211.1
00-CAS- 2305	0.781	0.35	0.228	19080.5	3.44	1.078	0.12	0.025	0.133	7.592	16.3	0.033	8482.25
00-CAS- 2306	0.899	0.426	0.222	23910	3.37	1.18	0.16	0.025	0.198	6.903	12.29	0.057	12011
00-CAS- 2307	0.89	0.389	0.244	18334.4	2.99	1.26	0.11	0.025	0.171	8.554	13.4	0.044	8357.28
00-CAS- 2308	1.08	0.464	0.221	23293.6	3.52	1.277	0.15	0.025	0.196	7.036	10.64	0.052	10261.9
00-CAS- 2309	0.669	0.379	0.189	28288.6	5.57	0.905	0.18	0.07	0.121	6.622	15.84	0.05	6274.45
00-CAS- 2310	0.975	0.435	0.197	18846.7	3.51	1.21	0.09	0.025	0.164	7.773	12.92	0.051	8046.71
00-CAS- 2311	0.856	0.379	0.203	19814.1	3.46	1.083	0.19	0.025	0.137	7.927	12.69	0.041	7098.09
00-CAS- 2312	0.923	0.534	0.248	23877.4	3.76	1.466	0.22	0.025	0.183	8.933	12.02	0.043	8422.8
00-CAS- 2313	0.716	0.345	0.199	21763.3	3.99	1.051	0.18	0.025	0.134	7.453	17.62	0.054	9523.24
00-CAS- 2314	1.215	0.594	0.292	31008.6	3.93	1.686	0.18	0.06	0.228	8.878	12.08	0.077	13548.2
00-CAS- 2315	1.797	0.861	0.357	35567.3	3.29	2.234	0.09	0.025	0.314	11.064	8.84	0.103	16842.8
00-CAS- 2316	0.822	0.373	0.204	32002.4	4.76	1.025	0.16	0.025	0.133	7.253	12.8	0.04	8095.28
00-CAS- 2317	0.671	0.401	0.208	33898	6.14	0.96	0.12	0.06	0.121	6.84	17.14	0.04	8165.16
00-CAS- 2320	0.743	0.337	0.178	26148	4.55	1.071	0.15	0.025	0.134	7.089	15.98	0.04	8550.25
00-CAS- 2321	0.563	0.272	0.17	23409.9	3.74	0.872	0.09	0.025	0.097	6.682	14.22	0.035	8409.87
00-CAS- 2322	0.959	0.387	0.222	24629.5	3.11	1.278	0.2	0.025	0.173	8.023	13.22	0.051	9754.11
00-CAS- 2323	0.933	0.487	0.273	22241.8	3.32	1.285	0.17	0.06	0.175	8.548	11.12	0.05	8184.84
00-CAS- 2324	0.687	0.328	0.214	33598.9	5.09	0.883	0.05	0.025	0.114	6.738	14.79	0.037	7435.43
00-CAS- 2325	0.648	0.316	0.219	27783.1	4.9	0.898	0.13	0.06	0.113	7.387	14.47	0.035	6835.37
00-CAS- 2326	0.498	0.267	0.159	26273.8	4.43	0.763	0.12	0.025	0.083	6.947	12.9	0.021	5080.51
00-CAS- 2327	0.816	0.397	0.182	33786.6	4.38	0.979	0.12	0.025	0.145	5.282	12.5	0.04	10710.5
00-CAS- 2330	0.487	0.259	0.179	32920.6	4.73	0.639	0.16	0.025	0.084	5.391	14.93	0.032	7353.6
00-CAS- 2334	0.984	0.476	0.279	26806.6	3.35	1.437	0.14	0.025	0.17	8.884	13.22	0.051	9634.87
00-CAS- 2335	0.62	0.349	0.223	27483.3	4.31	0.983	0.11	0.025	0.112	7.332	15.48	0.049	7878.26
00-CAS- 2337	0.796	0.428	0.216	32852.7	4.78	1.141	0.16	0.025	0.156	6.023	13.44	0.055	10872.1
00-CAS- 2341	0.899	0.514	0.227	28534.2	3.58	1.321	0.12	0.025	0.163	7.337	12.94	0.053	9689.19
00-CAS- 2342	0.863	0.47	0.235	34010.8	3.85	1.279	0.24	0.025	0.174	6.328	10.72	0.054	12636.4

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 2271	208.87	0.64	1.94	11.46	44.88	7.61	3.148	25.22	0.13	4.21	2.055	1	9
00-CAS- 2272	217.8	0.71	1.86	10.89	42.83	7.27	2.914	23.26	0.17	3.81	1.832	1.19	8.5
00-CAS- 2273	80	0.37	0.67	9.94	13.04	5.67	2.71	3.82	0.08	3.27	1.578	0.54	8.3
00-CAS- 2274	286.45	0.56	1.5	17.73	33.29	7.75	4.905	14.01	0.1	4.18	2.938	0.9	13.5
00-CAS- 2275	136.25	0.57	1.16	7.47	34.26	5.54	2.14	10.97	0.06	2.65	1.329	0.64	14.9
00-CAS- 2276	144.23	0.61	1.59	7.47	35.28	5.94	2.077	12.34	0.1	2.99	1.273	0.66	15.3
00-CAS- 2302	276.42	0.24	0.6	9.32	104.12	2.95	2.468	7.15	0.06	4.62	1.822	0.79	27
00-CAS- 2304	309.29	0.21	0.47	9.7	140.1	3.49	2.771	9.1	0.025	6.84	2.185	0.51	20.8
00-CAS- 2305	131.76	0.26	0.79	6.89	76.02	4.97	1.816	5.45	0.05	2.38	1.282	0.7	12.3
00-CAS- 2306	198.67	0.29	0.68	6.37	117.54	3.73	1.693	3.7	0.11	2.95	1.188	0.63	18.3
00-CAS- 2307	175.37	0.23	0.9	7.3	80.03	4.23	2.112	5.73	0.08	3.14	1.377	0.77	14.1
00-CAS- 2308	165.43	0.32	0.72	6.81	121	3.25	1.699	4.79	0.07	3.28	1.321	0.25	23.8
00-CAS- 2309	108.64	0.93	1.35	5.86	88.04	6.52	1.585	4.95	0.1	3.27	1.12	0.75	8.4
00-CAS- 2310	174.13	0.25	0.85	7.08	49.36	4.98	1.899	4.96	0.05	3.1	1.444	0.25	13.7
00-CAS- 2311	119.96	0.28	1.23	7.21	53.22	4.23	1.899	3.15	0.06	2.33	1.217	0.25	14.2
00-CAS- 2312	169.82	0.28	0.88	8.13	64.88	3.98	2.188	3.48	0.1	2.71	1.616	0.56	18.5
00-CAS- 2313	167.87	0.3	0.78	7.42	83.19	4.8	1.887	5.29	0.05	2.75	1.185	0.57	16.1
00-CAS- 2314	307.14	0.38	0.69	8.56	136.71	3.34	2.368	4.16	0.025	5.97	1.776	0.77	23
00-CAS- 2315	444.4	0.31	0.44	11.09	165.25	3.53	2.942	6.2	0.06	9.15	2.308	0.83	25.4
00-CAS- 2316	160.39	0.58	0.96	6.87	106.99	5.16	1.782	3.47	0.06	2.94	1.127	0.61	14.6
00-CAS- 2317	188.74	0.96	1.51	5.69	129.74	6.03	1.589	4.8	0.12	3.25	1.1	0.56	10.3
00-CAS- 2320	150.04	0.49	1.07	6.35	150.89	4.23	1.709	4.45	0.07	2.68	1.263	0.58	14
00-CAS- 2321	169.41	0.4	1	5.9	96.64	5.31	1.535	5.71	0.06	2.38	1.033	0.6	8.6
00-CAS- 2322	207.25	0.26	0.53	7.7	83.97	3.14	2.016	5.07	0.05	3.39	1.621	0.25	14.9
00-CAS- 2323	162.03	0.22	0.75	7.49	99.22	4.92	2.031	3.48	0.06	4.31	1.551	0.25	13.7
00-CAS- 2324	274.42	0.62	0.86	6.01	116.8	4.94	1.653	4.58	0.06	3.2	1.082	0.77	12.6
00-CAS- 2325	176.33	0.68	0.93	6.77	110.29	5.54	1.838	7.82	0.08	2.76	1.258	0.94	14.9
00-CAS- 2326	115.67	0.72	1.01	5.82	47.15	5.02	1.531	4.44	0.05	2.1	1.027	0.61	11.6
00-CAS- 2327	209.23	0.56	0.78	5.1	156.72	4.13	1.386	4.82	0.06	3.09	1.095	0.65	21
00-CAS- 2330	139.91	1.31	1.07	4.66	132.31	5.56	1.298	4.01	0.1	2.69	0.841	0.58	9.3
00-CAS- 2334	274.55	0.34	0.77	8.15	87.61	3.81	2.221	7.5	0.05	2.99	1.615	0.62	19.3
00-CAS- 2335	175.43	0.42	0.92	6.5	79.62	4.54	1.725	6.02	0.09	2.42	1.239	0.63	16.4
00-CAS- 2337	191.14	0.39	0.83	5.75	153.17	4.26	1.523	4.02	0.08	3.24	1.123	0.25	14
00-CAS- 2341	205.03	0.26	0.64	6.9	100.64	3.52	1.856	5.43	0.025	2.86	1.374	0.25	16.7
00-CAS- 2342	236.17	0.34	0.6	6.33	129.53	3.29	1.564	3.73	0.06	3.61	1.341	0.53	24.5

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 2271	0.025	0.193	5.03	N.M.	0.12	0.046	1.007	66.52	0.025	3.18	0.231	51.63	4.25
00-CAS- 2272	0.025	0.184	4.61	N.M.	0.12	0.043	0.952	64.99	0.025	2.97	0.181	49.04	3.3
00-CAS- 2273	0.025	0.196	3.13	N.M.	0.06	0.058	6.444	49.59	0.025	4.55	0.342	26.7	3.25
00-CAS- 2274	0.025	0.303	7.27	N.M.	0.09	0.052	1.147	62.46	0.025	5.08	0.361	45.57	4.77
00-CAS- 2275	0.025	0.139	3.59	N.M.	0.08	0.039	0.547	61.21	0.025	3.09	0.271	46.72	4.54
00-CAS- 2276	0.025	0.146	3.42	N.M.	0.06	0.058	0.515	75.9	0.025	3.17	0.281	51.99	5.73
00-CAS- 2302	0.025	0.263	2.89	N.M.	0.07	0.093	0.519	118.25	0.025	6.61	0.548	31.09	7.92
00-CAS- 2304	0.025	0.272	3.07	N.M.	0.06	0.096	0.563	109.44	0.025	7.12	0.578	32.06	5.02
00-CAS- 2305	0.025	0.155	2.01	N.M.	0.025	0.048	0.357	67.44	0.025	3.19	0.243	31.05	4
00-CAS- 2306	0.025	0.168	2.12	N.M.	0.05	0.065	0.429	87.58	0.59	4.18	0.35	26.09	5.31
00-CAS- 2307	0.025	0.197	2.35	N.M.	0.05	0.057	0.443	66.5	0.09	3.98	0.345	22.5	3.67
00-CAS- 2308	0.025	0.205	1.92	N.M.	0.025	0.063	0.382	89.68	0.13	4.78	0.38	25.55	5.6
00-CAS- 2309	0.025	0.13	2.6	N.M.	0.07	0.05	0.446	98.65	0.24	2.86	0.315	44.32	5.17
00-CAS- 2310	0.025	0.165	2.1	N.M.	0.025	0.047	0.386	77.95	0.13	4.39	0.328	23.84	4.05
00-CAS- 2311	0.025	0.152	2.76	N.M.	0.05	0.045	0.397	74.59	0.14	3.66	0.297	22.96	5.56
00-CAS- 2312	0.025	0.192	3.1	N.M.	0.06	0.052	0.455	82.06	0.23	4.34	0.392	25.12	6.11
00-CAS- 2313	0.025	0.136	2.18	N.M.	0.06	0.043	0.417	66.19	0.11	3.62	0.309	34.06	5.36
00-CAS- 2314	0.025	0.259	2.34	N.M.	0.05	0.079	0.453	123.88	0.2	6.05	0.44	29.88	7
00-CAS- 2315	0.025	0.303	3.41	N.M.	0.06	0.122	0.632	134.63	0.16	8.14	0.657	31.96	3.94
00-CAS- 2316	0.025	0.147	2.66	N.M.	0.06	0.047	0.409	106.28	0.19	3.17	0.327	27.36	5.58
00-CAS- 2317	0.025	0.136	2.23	N.M.	0.06	0.039	0.418	105.76	0.17	3.17	0.288	38.46	4.96
00-CAS- 2320	0.025	0.146	2.42	N.M.	0.06	0.039	0.365	79.35	0.16	3.2	0.249	29.9	4.93
00-CAS- 2321	0.025	0.119	2.02	N.M.	0.05	0.032	0.35	76.82	0.11	2.59	0.22	37.02	2.93
00-CAS- 2322	0.025	0.16	2.33	N.M.	0.06	0.057	0.407	79.76	0.09	4.4	0.338	25.9	5.21
00-CAS- 2323	0.025	0.185	2.75	N.M.	0.06	0.046	0.487	65.94	0.13	4.11	0.357	28.12	5.46
00-CAS- 2324	0.025	0.122	2.16	N.M.	0.06	0.038	0.341	97.42	0.72	2.8	0.239	40.68	3.4
00-CAS- 2325	0.025	0.13	2.54	N.M.	0.07	0.038	0.415	82.64	0.28	2.92	0.294	43.76	4.48
00-CAS- 2326	0.025	0.105	2	N.M.	0.025	0.038	0.309	89.07	0.19	2.15	0.211	32.79	3.36
00-CAS- 2327	0.025	0.136	1.93	N.M.	0.025	0.053	0.377	118.13	0.23	3.46	0.298	30.29	5.28
00-CAS- 2330	0.025	0.101	1.97	N.M.	0.025	0.04	0.283	105.7	0.18	2.34	0.19	35.81	4.95
00-CAS- 2334	0.025	0.217	3.19	N.M.	0.06	0.053	0.481	93.24	0.18	4.58	0.393	33.41	5.63
00-CAS- 2335	0.025	0.152	2.42	N.M.	0.06	0.05	0.412	78.2	0.23	3.1	0.277	37.14	3.9
00-CAS- 2337	0.025	0.136	2.11	N.M.	0.06	0.048	0.37	97.06	0.54	3.53	0.329	38.52	4.65
00-CAS- 2341	0.025	0.19	2.36	N.M.	0.025	0.067	0.391	93.8	0.1	4.12	0.343	27.48	4.16
00-CAS- 2342	0.025	0.161	2.46	N.M.	0.06	0.062	0.432	116.48	0.16	4.15	0.38	29.54	7

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 2344	0.45	1.82	1.84	24428	140	1.5	4283	9	21	103	21	37440	423
00-CAS- 2345	1.21	4.88	3.04	24372	74	1.5	4942	10	30	185	23	42695	289
00-CAS- 2346	1.13	3.51	2.84	20145	46	1.5	7415	8	21	188	21	31245	331
00-CAS- 2347	1.24	4.39	3.14	18604	44	1.5	8799	10	28	270	30	35302	455
00-CAS- 2349	1.66	3.29	3.03	19413	41	1.5	6636	10	28	323	27	41355	409
00-CAS- 2350	0.45	1.5	2.06	26642	90	1.5	2456	9	19	65	23	37978	337
00-CAS- 2351	1.06	4.18	2.04	14392	51	1.5	4628	6	14	105	28	24785	309
00-CAS- 2352	1.78	2.03	2.04	17082	61	1.5	3509	7	18	126	24	31210	309
00-CAS- 2354	2.59	9.08	2.17	19501	58	1.5	4167	7	17	63	43	27860	242
00-CAS- 2355	1.31	5.54	2.68	16895	52	1.5	5626	6	17	53	32	23110	321
00-CAS- 2356	3.16	5.4	2.61	28534	48	1.5	2883	9	22	82	53	38439	302
00-CAS- 2357	2.89	2.21	1.31	33561	116	1.5	2404	9	25	73	36	41358	269
00-CAS- 2358	1.32	3	2.4	18816	62	1.5	4554	7	19	115	40	27785	363
00-CAS- 2359	1.79	7.09	2.42	34026	43	1.5	2187	11	21	99	80	49555	333
00-CAS- 2360	1.34	4.21	2.67	29103	58	1.5	2921	9	21	88	48	36869	345
00-CAS- 2361	1.3	3.59	2.8	28019	57	1.5	2452	8	21	83	46	35500	308
00-CAS- 2362	1.7	1.12	1.15	25480	65	1.5	1711	8	15	48	23	35956	220
00-CAS- 2363	0.91	1.82	1.31	28528	54	1.5	1799	8	17	42	33	35580	234
00-CAS- 2364	1.29	5.63	2.09	35783	59	1.5	2481	9	21	46	59	36330	337
00-CAS- 2365	1.07	3.78	2.44	28413	74	1.5	3625	8	18	34	58	31770	291
00-CAS- 2367	0.45	1.53	1.76	24518	69	1.5	2725	8	15	42	24	33278	354
00-CAS- 2368	1.45	8.18	3.85	25506	31	1.5	5570	9	21	98	52	34843	315
00-CAS- 2369	0.45	1.61	1.71	28992	71	1.5	2820	8	18	57	26	38002	297
00-CAS- 2370	2.39	5.91	1.92	25096	61	1.5	4469	7	17	67	48	26626	277
00-CAS- 2371	1.03	1.63	2.19	27741	65	1.5	3623	8	19	50	26	36325	466
00-CAS- 2372	0.45	5.32	3.53	21690	58	1.5	5418	8	17	55	47	32792	277
00-CAS- 2373	1.43	17.27	2.58	27568	64	1.5	2489	9	21	84	26	39954	305
00-CAS- 2374	1.03	2.39	2	32559	75	1.5	2834	9	25	100	34	40472	266
00-CAS- 2375	2.44	4.52	2.35	16897	52	1.5	5528	7	20	72	30	28305	328
00-CAS- 3001	1.25	3.51	2.71	17802	70	1.5	8518	6	19	32	81	30092	517
00-CAS- 3002	1.46	3.97	2.47	18422	50	1.5	8690	7	23	35	61	35265	649
00-CAS- 3003	1.44	35.23	17.33	24560	64	1.5	7158	8	22	54	66	38199	459
00-CAS- 3004	2.4	1.23	1.42	23034	63	1.5	3052	7	16	33	28	34837	422
00-CAS- 3008	0.95	3.89	2.31	22427	31	1.5	7672	6	17	44	58	29225	367
00-CAS- 3013	1.3	5.03	2.93	28961	98	1.5	5926	8	27	54	76	42069	703

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 2344	15	9482	216	4	798	94	349	103	3	17	1508	129	17.5	4	42
00-CAS- 2345	13	11587	206	4	1132	198	310	92	3	18	1676	156	17.5	3	42
00-CAS- 2346	12	13330	237	4	1680	153	324	85	5	21	1504	107	17.5	6	35
00-CAS- 2347	10	21121	394	4	1922	164	588	92	6	24	1310	128	17.5	7	42
00-CAS- 2349	10	17664	408	4	1268	192	540	109	8	21	1228	139	17.5	6	41
00-CAS- 2350	14	8305	171	4	378	92	375	117	2	16	1228	114	17.5	3	42
00-CAS- 2351	12	9647	191	4	842	80	320	70	4	13	945	75	17.5	5	29
00-CAS- 2352	12	10927	209	4	531	108	382	75	2	12	1121	107	17.5	3	36
00-CAS- 2354	11	8908	144	4	752	68	317	76	3	17	1100	91	17.5	5	28
00-CAS- 2355	10	9420	160	4	1110	62	324	53	3	17	1312	80	17.5	5	29
00-CAS- 2356	16	8089	151	4	566	81	334	127	4	10	1286	109	17.5	4	44
00-CAS- 2357	21	7628	140	4	298	105	303	138	3	13	1237	114	17.5	3	42
00-CAS- 2358	15	10988	172	4	855	116	424	95	3	15	1131	83	17.5	4	40
00-CAS- 2359	19	7405	173	4	380	78	446	326	4	8	1302	143	17.5	4	53
00-CAS- 2360	12	8810	192	4	583	78	342	113	5	15	1302	123	17.5	6	51
00-CAS- 2361	11	8250	172	4	509	73	333	119	5	13	1149	118	17.5	6	48
00-CAS- 2362	14	4926	84	4	244	50	230	127	2	9	1016	112	17.5	2	33
00-CAS- 2363	14	6886	117	4	370	42	323	174	3	8	1032	115	17.5	3	33
00-CAS- 2364	14	7613	123	4	484	55	412	230	4	9	1052	111	17.5	4	38
00-CAS- 2365	12	8053	153	4	759	42	412	147	4	11	1268	117	17.5	6	38
00-CAS- 2367	14	6660	148	4	461	49	337	160	2	10	1198	105	17.5	3	46
00-CAS- 2368	9	11661	201	4	1332	88	264	134	5	17	1471	151	17.5	8	38
00-CAS- 2369	15	6842	144	4	435	63	345	157	3	12	1307	120	17.5	3	47
00-CAS- 2370	11	9204	125	4	894	79	482	116	3	14	1136	92	17.5	5	32
00-CAS- 2371	14	9224	178	4	664	78	420	138	2	13	1267	118	17.5	3	42
00-CAS- 2372	11	7716	169	4	746	61	291	117	4	16	1101	111	17.5	5	42
00-CAS- 2373	16	8018	143	4	503	83	336	188	3	10	1322	130	17.5	3	48
00-CAS- 2374	16	7049	143	4	425	107	380	204	3	12	1243	122	17.5	3	43
00-CAS- 2375	14	9553	237	4	1092	68	406	85	4	17	1266	95	17.5	6	36
00-CAS- 3001	6	5288	235	4	1342	47	791	57	3	30	1249	132	17.5	7	39
00-CAS- 3002	6	5655	267	4	1260	48	1019	91	3	24	1490	169	17.5	7	47
00-CAS- 3003	10	6965	217	4	989	70	824	92	4	27	1513	158	17.5	6	42
00-CAS- 3004	14	6100	149	4	442	35	211	112	2	12	1323	118	17.5	3	37
00-CAS- 3008	7	5452	186	4	1311	50	815	123	3	23	1365	135	17.5	6	39
00-CAS- 3013	16	8627	426	4	708	72	1293	238	4	19	1381	163	17.5	6	56

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 2344	0.08	21562.8	N.M.	132.1	0.05	3413.62	0.025	17.947	15.66	89.83	0.817	17.08
00-CAS- 2345	0.04	21747.6	N.M.	71	0.05	3953.73	0.025	10.379	25.06	167.95	0.558	19.97
00-CAS- 2346	0.03	16925	N.M.	44.79	0.26	5800.73	0.025	16.459	15.16	164.68	0.692	17.26
00-CAS- 2347	0.04	17851.7	N.M.	46.57	0.46	8005.92	0.025	22.925	23.46	272.69	0.64	27.8
00-CAS- 2349	0.07	18165.1	N.M.	43.91	0.49	5747.51	0.058	29.663	22.63	311.54	0.593	23.82
00-CAS- 2350	0.09	25161.5	N.M.	91.39	0.44	2138.09	0.025	15.488	15.41	63.84	1.015	21.92
00-CAS- 2351	0.06	13157.6	N.M.	51.53	0.33	3918.58	0.025	17.846	10.88	99.08	0.712	25.41
00-CAS- 2352	0.05	14908.2	N.M.	57.4	0.29	2787.57	0.025	15.645	13.47	114.58	0.719	20.8
00-CAS- 2354	0.04	17451.5	N.M.	57.51	0.05	3465.93	0.025	17.772	12.63	58.37	0.712	39.81
00-CAS- 2355	0.04	14917.2	N.M.	48.86	0.2	4618.34	0.025	17.326	12.2	49.72	0.705	28.98
00-CAS- 2356	0.12	28965.5	N.M.	48.1	0.46	2727.94	0.099	18.047	18.74	83.3	0.979	52.96
00-CAS- 2357	0.04	31691.5	N.M.	114.44	0.44	2209.52	0.083	13.546	20.53	70.96	0.775	34.62
00-CAS- 2358	0.04	17309.8	N.M.	58.79	0.65	3826.75	0.05	15.398	15.32	108.58	0.881	35.78
00-CAS- 2359	0.06	33229.7	N.M.	44.1	0.74	1946.1	0.119	12.835	17.2	101.27	0.882	78.95
00-CAS- 2360	0.06	24033.3	N.M.	57.62	0.47	2348.18	0.065	26.102	16.23	79.29	0.908	42.84
00-CAS- 2361	0.06	25000.6	N.M.	60.09	0.51	2256.46	0.025	25.409	16.68	81.08	0.841	45.01
00-CAS- 2362	0.06	21219.6	N.M.	60.3	0.66	1400.41	0.065	12.591	10.85	44.77	0.938	19.44
00-CAS- 2363	0.05	25097.6	N.M.	54.98	0.85	1670.69	0.073	16.351	13.4	40.67	0.855	30.62
00-CAS- 2364	0.09	31444.3	N.M.	57.31	0.64	2187.47	0.051	17.069	17.59	44.77	0.836	56.14
00-CAS- 2365	0.06	24817.7	N.M.	71.4	0.5	3115.19	0.055	24.008	13.75	30.61	0.79	53.8
00-CAS- 2367	0.08	21132	N.M.	64.24	0.26	2122.61	0.069	16.34	11.44	37.07	1.013	20.6
00-CAS- 2368	0.04	24699.9	N.M.	31.56	0.6	5322.58	0.064	31.438	18.56	100.13	0.537	54.86
00-CAS- 2369	0.05	21714.4	N.M.	64.53	0.51	2081.67	0.025	17.563	12.24	44.6	1.114	20.34
00-CAS- 2370	0.03	22369.8	N.M.	59.24	0.33	4073.1	0.025	17.666	13.28	64.02	0.586	45.23
00-CAS- 2371	0.16	24122.1	N.M.	62.68	0.5	3025.98	0.065	15.473	15.09	44.73	1.23	22.23
00-CAS- 2372	0.04	18751.9	N.M.	54.24	0.45	4513.32	0.052	17.697	12.34	48.52	0.532	41.8
00-CAS- 2373	0.03	23233.7	N.M.	63.1	0.42	2049.42	0.079	14.373	16.14	73	0.972	22.2
00-CAS- 2374	0.03	30252.3	N.M.	73.48	0.48	2505.52	0.06	13.473	21.63	94.07	0.827	31.57
00-CAS- 2375	0.03	14396.1	N.M.	49.05	0.36	4458.41	0.072	21.875	15.54	63.38	0.663	26.62
00-CAS- 3001	0.24	17665.1	N.M.	75.41	0.28	7361.38	0.065	52.573	14.85	30.56	0.68	74.96
00-CAS- 3002	0.01	18102.9	N.M.	51.06	0.05	7247.91	0.025	35.306	17.46	33.44	0.62	55.54
00-CAS- 3003	0.01	26268.1	N.M.	66.85	0.15	6432.79	0.025	37.051	17.69	54.94	1.194	62.11
00-CAS- 3004	0.01	26440.9	N.M.	66.71	0.3	3280.37	0.065	19.167	12.79	34.62	1.649	25.99
00-CAS- 3008	0.01	24222.8	N.M.	33.56	0.12	6946.71	0.025	26.971	13.98	43.78	0.642	52.15
00-CAS- 3013	0.01	31898.7	N.M.	95.63	0.37	5866.21	0.07	43.357	22.38	57.47	1.261	73.64

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 2344	0.727	0.331	0.217	30455.4	5.14	1.023	0.15	0.025	0.131	7.858	14.02	0.048	8076.34
00-CAS- 2345	0.678	0.281	0.208	35491.5	4.48	0.859	0.17	0.025	0.112	4.517	13.06	0.039	9860.31
00-CAS- 2346	1.249	0.564	0.324	24684.7	3.33	1.708	0.18	0.025	0.237	9.1	10.44	0.073	10515.9
00-CAS- 2347	1.533	0.894	0.356	32310	3.44	2.063	0.12	0.025	0.269	9.696	9.62	0.089	19159.5
00-CAS- 2349	1.373	0.619	0.319	36851.7	3.03	1.618	0.17	0.06	0.228	9.06	10	0.08	15697.2
00-CAS- 2350	0.608	0.291	0.202	33049.5	5.12	0.825	0.12	0.025	0.115	7.044	15.11	0.034	7549.81
00-CAS- 2351	0.973	0.454	0.253	20762.3	2.98	1.488	0.1	0.025	0.201	9.044	12.12	0.059	8546.5
00-CAS- 2352	0.681	0.312	0.161	25745	3.51	1.023	0.15	0.025	0.149	6.475	11.76	0.047	9117.51
00-CAS- 2354	1.011	0.406	0.24	22962.3	3.59	1.349	0.11	0.025	0.182	8.261	11.57	0.055	7619.21
00-CAS- 2355	0.963	0.525	0.244	18642.7	3.02	1.385	0.16	0.025	0.188	8.405	10.8	0.049	8062.52
00-CAS- 2356	0.909	0.42	0.276	35934.5	5.25	1.281	0.11	0.025	0.171	8.208	17.35	0.059	7755.09
00-CAS- 2357	0.651	0.252	0.177	35397.7	5.97	0.955	0.13	0.06	0.101	6.96	21.45	0.032	7102.5
00-CAS- 2358	0.868	0.345	0.229	22748.3	3.58	1.263	0.07	0.025	0.149	7.199	15.31	0.044	9641.88
00-CAS- 2359	0.922	0.401	0.252	43698.9	6.07	1.113	0.17	0.07	0.158	6.337	20.59	0.052	7110.9
00-CAS- 2360	1.411	0.661	0.346	27922.3	4.47	1.758	0.19	0.07	0.251	9.755	12.05	0.064	7105.74
00-CAS- 2361	1.216	0.613	0.368	29045.1	4.42	1.701	0.19	0.025	0.223	9.608	12.4	0.071	7291.69
00-CAS- 2362	0.506	0.2	0.173	27747.4	5.14	0.735	0.1	0.05	0.072	6.315	14.57	0.03	4194.55
00-CAS- 2363	0.683	0.249	0.191	28495.6	4.85	0.86	0.14	0.09	0.099	6.795	15.16	0.03	5995.43
00-CAS- 2364	0.88	0.418	0.261	28890.8	4.77	1.213	0.2	0.07	0.168	7.707	14.84	0.047	6680.53
00-CAS- 2365	1.293	0.573	0.359	24043.1	3.95	1.611	0.13	0.025	0.233	8.947	13.53	0.054	6825.19
00-CAS- 2367	0.711	0.308	0.205	25536.1	4.81	1.028	0.11	0.025	0.105	7.932	14.48	0.018	5427.19
00-CAS- 2368	1.829	0.923	0.524	30635.4	3.91	2.376	0.18	0.025	0.343	10.386	11.54	0.092	11047.1
00-CAS- 2369	0.649	0.327	0.207	25598.2	4.78	1.035	0.12	0.025	0.118	7.709	13.78	0.03	5152.28
00-CAS- 2370	1.11	0.494	0.243	21525.2	3.65	1.489	0.16	0.025	0.175	8.036	11.83	0.041	8060.28
00-CAS- 2371	0.697	0.328	0.175	28756	4.22	1.011	0.14	0.025	0.114	6.798	14.38	0.041	7742.4
00-CAS- 2372	1	0.428	0.263	26495.7	4.6	1.479	0.08	0.025	0.166	8.88	11.3	0.044	6446.89
00-CAS- 2373	0.654	0.298	0.211	29938.4	4.82	0.941	0.11	0.025	0.097	6.434	17.14	0.018	6681.11
00-CAS- 2374	0.641	0.247	0.177	32764.2	5.08	0.865	0.18	0.025	0.101	6.26	17.65	0.021	6437.01
00-CAS- 2375	1.289	0.562	0.275	22259	3.04	1.659	0.14	0.025	0.212	9.924	14.29	0.052	7905.96
00-CAS- 3001	1.486	0.764	0.512	26040	3.42	2.322	0.025	0.025	0.287	14.409	6.59	0.118	4871.79
00-CAS- 3002	1.234	0.613	0.412	30356.5	3.32	1.949	0.05	0.025	0.247	13.545	6.34	0.086	5443.82
00-CAS- 3003	1.455	0.68	0.444	34902.1	4.22	1.945	0.08	0.025	0.26	12.699	10.84	0.082	7110.72
00-CAS- 3004	0.667	0.343	0.252	32840.7	5	1.098	0.07	0.025	0.118	8.035	14.61	0.044	6740.31
00-CAS- 3008	1.291	0.582	0.412	28652.4	3.55	1.812	0.025	0.025	0.251	10.652	7.41	0.076	5799.1
00-CAS- 3013	1.281	0.591	0.396	41201.9	5.49	1.903	0.025	0.025	0.238	12.442	16.08	0.068	9028.44

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 2344	189	0.5	0.89	6.58	79.54	4.91	1.901	7.46	0.07	2.64	1.439	0.63	15.7
00-CAS- 2345	182.92	0.47	0.59	4.46	176.26	3.23	1.116	2.61	0.05	2.65	0.871	0.25	17.5
00-CAS- 2346	197.74	0.28	0.6	8.65	130.06	3.93	2.296	5.37	0.05	4.44	1.567	0.7	19.4
00-CAS- 2347	383.56	0.38	0.54	10.33	155.82	3.55	2.475	8.17	0.025	6.24	2.147	0.84	24.7
00-CAS- 2349	382.93	0.36	0.5	9	178.4	3.08	2.275	9.26	0.07	7.71	1.614	0.25	20.5
00-CAS- 2350	162.06	0.45	1.18	6.16	86.32	4.44	1.637	7.71	0.06	2.44	1.031	0.62	15.8
00-CAS- 2351	170.03	0.21	0.63	8.05	70.51	4.59	2.181	8.95	0.025	3.8	1.541	1.58	13.1
00-CAS- 2352	186.01	0.38	0.73	5.66	94.26	4.32	1.531	7.21	0.025	2.17	0.868	0.56	11.1
00-CAS- 2354	124	0.33	0.71	7.62	57.44	4.38	1.937	3.4	0.025	2.94	1.289	0.25	16
00-CAS- 2355	137.4	0.19	0.47	7.2	50.78	3.74	2.015	6.64	0.025	2.99	1.364	0.25	15.4
00-CAS- 2356	150.29	0.62	1.12	7.32	76.72	5.18	1.949	4.47	0.09	3.91	1.389	0.7	10.9
00-CAS- 2357	123.87	0.66	1.32	5.98	97.63	4.98	1.611	3.75	0.08	2.68	1.015	0.69	12.5
00-CAS- 2358	144.71	0.29	0.7	6.76	105.88	4.47	1.814	5.23	0.025	2.99	1.348	0.25	14.2
00-CAS- 2359	162.43	1.2	1.55	6.11	75.05	6.5	1.485	4.83	0.12	4.22	1.028	0.69	7.8
00-CAS- 2360	161.86	0.44	0.96	9.18	67.96	4.19	2.385	5.65	0.08	5.02	1.722	0.56	14.2
00-CAS- 2361	151.8	0.44	1.04	8.42	69.25	4.3	2.334	5.33	0.06	5.06	1.627	0.25	12.5
00-CAS- 2362	71.61	0.85	1.34	5.31	42.88	5.98	1.406	4.4	0.09	2.2	0.918	0.61	8.1
00-CAS- 2363	97.62	0.66	1.36	5.87	37.09	5	1.545	3.77	0.1	3.05	1.06	0.58	7.7
00-CAS- 2364	107.42	0.71	1.41	7.29	48.23	4.13	1.977	4.66	0.07	4.34	1.479	0.25	8.7
00-CAS- 2365	133.72	0.43	0.98	9.09	35.41	5.66	2.354	3.75	0.025	3.89	1.818	0.54	10.6
00-CAS- 2367	126.75	0.72	1.21	6.66	41.67	5.7	1.925	6.68	0.07	2.28	1.317	0.67	9.3
00-CAS- 2368	198.59	0.44	0.62	11.78	89.54	2.7	3.011	2.44	0.025	5.94	2.777	0.25	17.9
00-CAS- 2369	106.5	0.65	1.22	6.69	49.16	5.53	1.832	4.91	0.07	2.55	1.247	0.69	10.7
00-CAS- 2370	109.17	0.26	0.93	8.10	72.31	3.43	2.09	2.74	0.025	3.03	1.611	0.25	13.5
00-CAS- 2371	151.83	0.46	1.17	6.34	67.34	4.32	1.625	8.37	0.11	2.35	0.991	0.58	12.4
00-CAS- 2372	143.98	0.39	0.71	8.28	51.43	5.37	2.144	3.41	0.06	3.62	1.664	0.59	15
00-CAS- 2373	118.44	0.93	1.18	6.11	70.48	4.77	1.547	4.77	0.09	2.27	1.041	0.61	8.8
00-CAS- 2374	125.16	0.71	1.29	5.58	101.3	5.59	1.471	3.92	0.08	3.1	1.069	0.64	10.6
00-CAS- 2375	198.7	0.19	0.76	9.81	59.42	4.33	2.512	4.54	0.025	3.85	1.843	0.25	15.7
00-CAS- 3001	231.08	0.55	0.025	13.84	39.57	3.86	3.585	4.13	0.08	3.23	2.59	0.6	28.8
00-CAS- 3002	239.62	0.11	0.11	12.44	38.36	5.01	3.242	4.35	0.07	2.78	2.117	1.18	24.1
00-CAS- 3003	216.12	0.16	0.18	12.2	62.31	4.03	3.181	5.03	0.07	3.99	2.164	0.7	27.6
00-CAS- 3004	167.19	0.35	0.67	7.1	32.23	4.68	1.909	8.11	0.09	2.46	1.262	0.8	15.2
00-CAS- 3008	195.83	0.05	0.36	10.87	45.17	3.78	2.649	2.88	0.06	3.19	2.066	1.23	24
00-CAS- 3013	450.97	0.52	0.6	11.98	70.73	4.54	3.101	11.41	0.08	4.06	2.164	0.79	21.2

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 2344	0.025	0.146	2.63	N.M.	0.05	0.054	0.439	100.5	0.09	3.32	0.349	30.95	5.34
00-CAS- 2345	0.025	0.121	1.62	N.M.	0.025	0.047	0.341	130.14	0.08	2.94	0.276	30.74	6
00-CAS- 2346	0.025	0.24	2.33	N.M.	0.025	0.091	0.499	81.85	0.13	5.82	0.495	23.94	5.36
00-CAS- 2347	0.025	0.263	2.39	N.M.	0.05	0.101	0.525	120.97	0.14	7.75	0.628	31.2	5.07
00-CAS- 2349	0.025	0.247	2.7	N.M.	0.06	0.084	0.502	127.47	0.14	6.12	0.532	30.4	4.76
00-CAS- 2350	0.025	0.11	2.38	N.M.	0.025	0.037	0.369	102.78	0.13	2.92	0.243	33.85	3.95
00-CAS- 2351	0.025	0.182	2.48	N.M.	0.06	0.071	0.477	64.94	0.08	5.03	0.46	22.22	3.28
00-CAS- 2352	0.025	0.137	2.25	N.M.	0.025	0.04	0.367	90.07	0.07	3	0.233	25.8	3.79
00-CAS- 2354	0.025	0.171	2.56	N.M.	0.06	0.06	0.415	75.1	0.07	4.32	0.387	20.68	4.1
00-CAS- 2355	0.025	0.178	2.44	N.M.	0.05	0.065	0.457	70.19	0.13	4.21	0.389	21.1	4.64
00-CAS- 2356	0.025	0.195	2.65	N.M.	0.07	0.055	0.424	101.61	0.26	3.99	0.346	36.98	4.41
00-CAS- 2357	0.025	0.125	2.14	N.M.	0.07	0.04	0.414	100.8	0.17	2.61	0.229	34.05	4.12
00-CAS- 2358	0.025	0.179	2.04	N.M.	0.06	0.049	0.383	74.26	0.27	3.74	0.285	30.48	3.14
00-CAS- 2359	0.025	0.161	2.21	N.M.	0.06	0.057	0.42	131.2	0.18	3.88	0.373	44.94	5.11
00-CAS- 2360	0.025	0.237	2.93	N.M.	0.06	0.101	0.549	96.96	0.22	5.89	0.514	41.14	6.12
00-CAS- 2361	0.025	0.226	2.88	N.M.	0.06	0.079	0.509	101.84	0.16	5.64	0.53	40.78	5.78
00-CAS- 2362	0.025	0.1	2.17	N.M.	0.06	0.025	0.312	92.87	0.09	2.02	0.183	25.3	2.79
00-CAS- 2363	0.025	0.131	2.89	N.M.	0.06	0.047	0.38	96.85	0.21	2.64	0.26	26.07	4.54
00-CAS- 2364	0.025	0.172	3.14	N.M.	0.08	0.047	0.504	98.44	0.14	3.87	0.436	29.38	5.66
00-CAS- 2365	0.025	0.218	3.29	N.M.	0.07	0.077	0.621	98.42	0.22	5.75	0.504	30.14	6.43
00-CAS- 2367	0.025	0.137	2.68	N.M.	0.07	0.019	0.421	82.41	0.15	3.19	0.255	35.82	4.47
00-CAS- 2368	0.025	0.353	2.6	N.M.	0.025	0.103	0.554	148.22	0.16	8.75	0.748	33.59	8.12
00-CAS- 2369	0.025	0.113	2.56	N.M.	0.06	0.03	0.385	83.63	0.11	3.01	0.271	34.6	4.43
00-CAS- 2370	0.025	0.219	2.69	N.M.	0.06	0.055	0.486	78.5	0.11	5.12	0.396	23.4	6.81
00-CAS- 2371	0.025	0.105	2.58	N.M.	0.05	0.016	0.407	92.93	0.27	3.36	0.243	31.89	5.42
00-CAS- 2372	0.025	0.175	2.37	N.M.	0.05	0.044	0.418	88.65	0.13	4.74	0.347	33.17	4.11
00-CAS- 2373	0.025	0.116	2.31	N.M.	0.025	0.021	0.333	100.91	0.17	2.89	0.283	37.53	4.92
00-CAS- 2374	0.025	0.107	2.45	N.M.	0.06	0.021	0.4	102.7	0.2	3.04	0.274	34.41	5.77
00-CAS- 2375	0.025	0.219	2.75	N.M.	0.05	0.064	0.538	73.93	0.07	5.97	0.504	26.86	6.1
00-CAS- 3001	0.025	0.366	3.04	5	0.07	0.116	0.584	117.6	0.36	7.08	0.592	34.69	4.44
00-CAS- 3002	0.025	0.29	2.6	5	0.025	0.089	0.469	152.35	0.66	6.13	0.519	39.06	4.64
00-CAS- 3003	0.025	0.282	3.39	5	0.07	0.098	0.568	158.25	0.16	6.41	0.5	35.67	6.79
00-CAS- 3004	0.025	0.158	2.22	5	0.08	0.049	0.344	121.62	0.025	2.97	0.251	34	5.69
00-CAS- 3008	0.025	0.277	2.37	5	0.025	0.089	0.434	129.04	0.51	6.36	0.536	36.06	5.39
00-CAS- 3013	0.025	0.275	3.09	5	0.1	0.083	0.568	164.78	0.3	6.48	0.51	51.56	4.1

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 3017	1.41	4.16	3.04	16722	77	1.5	8184	6	23	37	64	36153	816
00-CAS- 3020	1.44	5.58	4.13	28256	105	1.5	8009	8	24	41	76	39405	657
00-CAS- 3023	1.53	2.91	2.24	12885	33	1.5	7331	5	15	26	39	29262	445
00-CAS- 3029	52.35	4.12	2.3	35018	41	1.5	5440	7	18	41	64	36362	355
00-CAS- 3030	2.14	1.73	1.62	24909	65	1.5	4225	7	18	34	36	33579	408
00-CAS- 3051	1.71	3.43	2.83	26874	44	1.5	5074	7	20	39	45	34574	501
00-CAS- 3052	2.22	4.06	3.19	29874	54	1.5	7194	8	29	62	134	41077	604
00-CAS- 3053	3.07	4.05	3.19	28882	61	1.5	9042	9	25	60	76	41186	797
00-CAS- 3054	2.96	4.51	3.47	31640	49	1.5	9010	9	27	70	85	44713	573
00-CAS- 3055	2.86	4.06	2.83	36169	49	1.5	8311	9	28	67	123	42588	443
00-CAS- 3056	10.66	7.23	3.42	27452	143	1.5	10050	10	31	93	114	50034	1104
00-CAS- 3057	2.92	5.1	2.87	27808	76	1.5	9143	7	22	43	82	35981	634
00-CAS- 3058	5.04	4.26	3.04	29945	45	1.5	9114	8	22	43	92	39214	481
00-CAS- 3059	2.38	4.69	2.92	27406	37	1.5	8221	7	22	40	78	35213	531
00-CAS- 3060	1.81	3.32	2.72	27964	55	1.5	7663	9	20	47	54	36325	621
00-CAS- 3061	1.46	3.59	3.21	30465	51	1.5	7385	9	21	47	41	41271	517
00-CAS- 3063	2.96	4.34	2.95	23776	89	1.5	10648	9	28	66	94	42481	820
00-CAS- 3066	8	22.48	7.42	24486	77	1.5	10387	10	29	61	150	44660	951
00-CAS- 3067	3	3.84	2.75	28618	72	1.5	8540	9	26	68	65	41328	910
00-CAS- 3068	3.09	4.92	3.37	25133	60	1.5	9016	9	28	68	67	43039	1014
00-CAS- 3069	2.59	2.25	2.08	27273	51	1.5	6302	8	20	43	31	34409	520
00-CAS- 3070	2.79	4.06	3.28	25494	75	1.5	5922	9	25	84	58	43372	708
00-CAS- 3071	4.05	3.08	2.63	27144	55	1.5	6714	8	24	67	63	40529	646
00-CAS- 3073	1.83	2.95	2.28	28643	56	1.5	7509	8	23	63	63	38117	475
00-CAS- 3074	2.3	4.55	3.24	24667	100	1.5	9226	9	22	67	68	39901	710
00-CAS- 3076	2.68	3.87	3.23	27543	65	1.5	9456	9	25	72	68	43056	902
00-CAS- 3077	1.36	2.67	2.69	27801	120	1.5	6607	8	19	39	49	33874	555
00-CAS- 3078	4.69	7.19	4.62	28423	176	1.5	10535	10	30	75	127	44592	1109
00-CAS- 3079	1.94	3.47	3.07	28060	48	1.5	7413	8	23	66	60	38920	499
00-CAS- 3080	2.18	4.01	2.65	26178	68	1.5	6160	9	24	56	55	38131	711
00-CAS- 3081	1.6	6.94	3.77	27744	58	1.5	6915	7	20	44	41	35979	545
00-CAS- 3082	1.74	3.47	2.8	24182	57	1.5	6564	7	20	40	56	34352	450
00-CAS- 3101	1.67	19.9	10.85	16620	88	1.5	10380	8	32	86	37	32852	896
00-CAS- 3102	3.15	35.65	11.32	16828	116	1.5	10827	8	22	75	81	33609	1387
00-CAS- 3103	1.36	22.3	10.3	17180	77	1.5	10754	9	18	95	40	38253	946

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 3017	7	6256	291	4	1172	52	952	65	4	25	1457	168	17.5	8	46
00-CAS- 3020	13	7899	336	4	1157	53	886	74	5	37	1565	156	17.5	7	45
00-CAS- 3023	4	4070	201	4	1089	35	857	52	2	20	1368	163	17.5	6	39
00-CAS- 3029	11	6588	191	4	783	46	1043	242	4	14	1405	160	17.5	7	43
00-CAS- 3030	13	7393	182	4	621	41	569	114	3	16	1176	122	17.5	4	37
00-CAS- 3051	12	9527	216	4	1007	46	452	129	4	13	1287	152	17.5	5	42
00-CAS- 3052	12	11007	277	4	1411	71	382	125	5	19	1578	174	17.5	7	49
00-CAS- 3053	12	10820	302	4	1654	61	496	120	5	22	1510	169	17.5	7	51
00-CAS- 3054	11	10521	310	4	1810	63	450	122	7	22	1536	174	17.5	10	53
00-CAS- 3055	12	9910	230	4	1543	72	595	225	6	21	1263	166	17.5	8	51
00-CAS- 3056	16	12376	399	4	1782	83	463	91	8	26	1677	190	17.5	9	62
00-CAS- 3057	13	11768	253	4	1774	54	518	106	4	23	1440	140	17.5	8	46
00-CAS- 3058	10	9758	284	4	1861	54	527	137	5	22	1372	166	17.5	7	49
00-CAS- 3059	12	11620	244	4	1500	51	588	126	4	19	1395	164	17.5	7	42
00-CAS- 3060	16	13326	228	4	1500	45	443	117	4	18	1016	139	17.5	6	42
00-CAS- 3061	12	9494	290	4	1337	50	684	211	4	17	1278	201	17.5	7	49
00-CAS- 3063	13	9954	334	4	2027	80	358	78	5	26	1536	179	17.5	7	52
00-CAS- 3066	12	10570	330	4	1912	75	723	105	5	26	1564	185	17.5	9	56
00-CAS- 3067	13	9959	322	4	1541	64	624	129	5	20	1482	183	17.5	7	51
00-CAS- 3068	11	9915	349	4	1645	69	682	111	6	20	1574	195	17.5	9	56
00-CAS- 3069	14	11013	227	4	1117	47	516	160	4	14	1351	141	17.5	6	42
00-CAS- 3070	18	10986	290	4	1069	59	375	152	6	14	1677	172	17.5	7	50
00-CAS- 3071	12	8776	267	4	1164	58	515	154	5	15	1593	178	17.5	6	50
00-CAS- 3073	13	9992	239	4	1313	56	520	158	5	18	1516	160	17.5	6	47
00-CAS- 3074	12	10864	304	4	1533	56	489	54	7	30	1508	163	17.5	10	51
00-CAS- 3076	12	9816	310	4	1688	68	609	124	6	22	1313	176	17.5	8	54
00-CAS- 3077	15	11292	217	4	1201	46	417	122	4	17	1099	130	17.5	5	41
00-CAS- 3078	15	13750	358	4	1829	83	677	102	6	24	1461	163	17.5	9	56
00-CAS- 3079	13	9936	262	4	1352	55	542	126	6	18	1485	159	17.5	7	48
00-CAS- 3080	14	9641	283	4	1068	58	467	125	4	15	1333	145	17.5	6	53
00-CAS- 3081	13	9495	249	4	1194	46	543	183	4	16	1349	152	17.5	7	46
00-CAS- 3082	12	10434	279	4	1253	46	409	80	5	17	1340	144	17.5	7	46
00-CAS- 3101	13	19123	459	4	2073	165	727	61	4	26	1156	92	17.5	11	56
00-CAS- 3102	16	15847	385	4	1965	112	794	48	6	26	1289	108	17.5	11	64
00-CAS- 3103	10	12551	256	4	2120	163	658	55	6	26	1263	117	17.5	9	62

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 3017	0.01	18539	N.M.	81.61	0.15	7270.73	0.025	51.659	18.69	37.59	0.763	58.23
00-CAS- 3020	0.01	31331	N.M.	105.56	0.28	7579.37	0.025	61.159	19.23	42.58	1.046	69.92
00-CAS- 3023	0.01	13046.7	N.M.	36.19	0.05	6117.15	0.025	27.357	11.82	25.36	0.336	32.58
00-CAS- 3029	0.16	36189.7	N.M.	44.74	0.17	5093.68	0.081	31.032	13.52	40.7	1.09	53.57
00-CAS- 3030	0.01	25755.4	N.M.	67.26	0.33	3941.24	0.025	25.511	13.84	34.36	0.836	29.05
00-CAS- 3051	0.01	28260.4	N.M.	48.55	0.21	4757.05	0.025	24.69	15.83	40.87	0.98	38
00-CAS- 3052	0.01	32539.4	N.M.	53.71	0.26	6633.63	0.025	40.684	24.11	63.29	1.14	122.11
00-CAS- 3053	0.01	30869.2	N.M.	60.35	0.18	7890.85	0.025	40.142	19.31	59.03	1.208	66.61
00-CAS- 3054	0.01	30847	N.M.	49.14	0.18	7635.98	0.025	42.784	20.29	66.84	1.118	72.14
00-CAS- 3055	0.01	42189.7	N.M.	48.85	0.34	8419.47	0.025	42.037	24.45	71.31	1.333	113.53
00-CAS- 3056	0.01	28801.2	N.M.	141.84	0.17	8727.82	0.025	42.356	26.01	94.06	2.169	104.5
00-CAS- 3057	0.17	28800.5	N.M.	76.35	0.19	8249.97	0.067	38.859	16.07	43.75	1.19	69.64
00-CAS- 3058	0.01	28928	N.M.	48.4	0.2	8248.22	0.068	32.561	18.57	44.88	0.826	84.71
00-CAS- 3059	0.01	25977.6	N.M.	38.14	0.28	6998.94	0.025	29.679	17.26	40.6	0.951	69.56
00-CAS- 3060	0.01	24291.3	N.M.	54.86	0.32	5938.91	0.062	29.372	14.8	43.3	1.053	44.95
00-CAS- 3061	0.01	29147.2	N.M.	50.85	0.38	6371.45	0.051	26.686	17.7	46.56	0.885	34.05
00-CAS- 3063	0.01	22928.7	N.M.	87.82	0.11	8873.19	0.055	41.714	23.74	63.92	1.359	82.76
00-CAS- 3066	0.35	21752.5	N.M.	75.36	0.31	8076.54	0.095	41.833	22.44	53.85	1.198	133.66
00-CAS- 3067	0.07	27314.6	N.M.	75.11	0.21	6741.38	0.025	41.756	22.06	68.81	1.3	65.05
00-CAS- 3068	0.04	23645.3	N.M.	59.96	0.17	7168.86	0.058	33.963	22.48	64.23	1.4	61.69
00-CAS- 3069	0.04	27238.8	N.M.	52.21	0.26	5235.79	0.025	23.756	16.31	44.83	1.139	30.92
00-CAS- 3070	0.05	23379.5	N.M.	74.96	0.31	4379.97	0.025	32.465	19.77	80.12	1.773	52.67
00-CAS- 3071	0.03	29364.7	N.M.	57.24	0.14	6031.73	0.025	23.838	20.59	71.04	1.158	63.85
00-CAS- 3073	0.01	27939.1	N.M.	51.84	0.24	5799.61	0.055	29.278	18.36	60.66	1.236	57.55
00-CAS- 3074	0.01	25263.8	N.M.	93.83	0.2	7626.74	0.025	35.139	16.98	67.16	1.155	61.92
00-CAS- 3076	0.25	30166.5	N.M.	66.07	0.35	8477.13	0.069	38.342	21.94	74.09	1.337	69.06
00-CAS- 3077	0.05	25696.9	N.M.	108.77	0.05	4909.03	0.025	27.937	13.9	35.86	0.91	42.57
00-CAS- 3078	0.06	28458.8	N.M.	171.47	0.18	8490.48	0.025	45.981	24.41	73.92	1.776	119.01
00-CAS- 3079	0.02	29600.2	N.M.	54.59	0.33	6195.43	0.025	30.393	18.91	65.29	1.199	59.36
00-CAS- 3080	0.05	28912.5	N.M.	68.51	0.32	5666.51	0.056	29.867	20.94	58.49	1.515	56.29
00-CAS- 3081	0.06	29322.3	N.M.	56.74	0.32	5742.19	0.025	28.892	15.83	43.25	1.126	36.99
00-CAS- 3082	0.08	27331	N.M.	57.42	0.41	5821.47	0.059	26.788	16.91	42.58	1.059	56.42
00-CAS- 3101	0.02	17417.7	N.M.	87.75	0.2	8330.6	0.051	32.273	25.79	85.24	1.665	33.43
00-CAS- 3102	0.31	18017.2	N.M.	120.68	0.37	9200.52	0.094	42.243	17.02	74.87	1.408	82.11
00-CAS- 3103	0.04	15111.7	N.M.	78.33	0.05	7638.57	0.056	26.795	13.22	87.23	1.577	40.46

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 3017	1.671	0.8	0.524	33784.4	3.82	2.335	0.025	0.025	0.32	14.321	8	0.101	6584.85
00-CAS- 3020	1.675	0.732	0.447	37161.4	5.22	2.302	0.025	0.025	0.296	17.852	13.34	0.088	8544.69
00-CAS- 3023	1.217	0.591	0.354	25882.5	2.56	1.808	0.025	0.025	0.227	11.699	4.21	0.073	4055.27
00-CAS- 3029	1.548	0.713	0.453	31151.6	3.96	2.21	0.025	0.025	0.269	14.521	10.61	0.082	6575.65
00-CAS- 3030	1.019	0.405	0.285	29616.9	4.02	1.524	0.025	0.025	0.167	9.571	12.3	0.061	7175.95
00-CAS- 3051	1.181	0.52	0.346	32061.8	4.18	1.553	0.025	0.025	0.205	8.066	11.71	0.068	9468.84
00-CAS- 3052	1.421	0.65	0.368	37249	4.65	1.84	0.15	0.025	0.266	9.312	13.66	0.081	11193.8
00-CAS- 3053	1.461	0.672	0.429	36636.4	4.5	1.901	0.11	0.025	0.28	9.743	11.66	0.084	10502.4
00-CAS- 3054	2.067	0.952	0.491	38598.9	4.46	2.544	0.13	0.025	0.373	12.67	10.92	0.103	10142
00-CAS- 3055	1.803	0.796	0.525	43073.9	4.99	2.452	0.08	0.025	0.33	11.886	14.01	0.099	10939.3
00-CAS- 3056	1.927	0.864	0.476	44795.9	5.52	2.477	0.06	0.025	0.337	17.102	16.62	0.105	12636.1
00-CAS- 3057	1.759	0.793	0.489	30591.7	4.42	2.599	0.07	0.025	0.327	13.864	12.31	0.108	11313.8
00-CAS- 3058	1.495	0.758	0.474	33810.2	4.6	2.196	0.08	0.025	0.28	9.537	10.51	0.095	9597.88
00-CAS- 3059	1.464	0.738	0.4	27730.4	3.81	1.955	0.09	0.025	0.285	9.015	11.4	0.086	10801.3
00-CAS- 3060	1.202	0.632	0.316	29329.3	4.12	1.676	0.05	0.025	0.235	8.206	14.56	0.063	11353.4
00-CAS- 3061	1.481	0.772	0.369	36352.7	4.55	1.974	0.13	0.025	0.299	9.526	12.94	0.081	9437.97
00-CAS- 3063	1.513	0.762	0.425	37881.1	4.66	2.232	0.1	0.025	0.317	10.812	12.95	0.112	9422.41
00-CAS- 3066	1.941	0.956	0.6	33687.5	4.69	2.663	0.12	0.025	0.407	14.261	11.05	0.166	8616.15
00-CAS- 3067	1.588	0.882	0.425	35321.7	4.79	2.216	0.13	0.025	0.291	10.743	12.59	0.122	9498.24
00-CAS- 3068	1.806	0.836	0.491	36887.1	4.51	2.465	0.13	0.025	0.368	11.977	11.74	0.119	9353.25
00-CAS- 3069	1.348	0.669	0.348	31067.2	4.27	1.757	0.11	0.025	0.249	8.357	15.08	0.088	11010.3
00-CAS- 3070	1.591	0.845	0.388	36258.4	5.04	2.081	0.16	0.025	0.313	11.57	15.8	0.102	10306.5
00-CAS- 3071	1.328	0.652	0.373	39769.3	4.79	1.698	0.13	0.025	0.256	8.757	13.7	0.084	9512.94
00-CAS- 3073	1.256	0.627	0.353	32214.1	4.21	1.507	0.11	0.025	0.236	8.799	12.06	0.076	9429.65
00-CAS- 3074	1.955	0.978	0.594	36016.5	4.75	2.895	0.12	0.025	0.358	17.306	12.63	0.116	10789.5
00-CAS- 3076	1.677	0.837	0.463	41228.7	5	2.373	0.12	0.025	0.332	11.889	12.25	0.094	10124.9
00-CAS- 3077	1.09	0.577	0.317	26320	4.56	1.481	0.1	0.025	0.207	8.494	12.9	0.077	9644.49
00-CAS- 3078	1.868	0.892	0.442	39017.1	5.57	2.618	0.15	0.025	0.335	12.771	14.9	0.101	12486.4
00-CAS- 3079	1.601	0.729	0.427	35852.1	4.43	2.043	0.12	0.025	0.301	10.493	12.5	0.09	10124.8
00-CAS- 3080	1.423	0.587	0.389	38120.5	5	1.856	0.08	0.025	0.236	9.386	15.98	0.074	10156.8
00-CAS- 3081	1.525	0.7	0.448	31502.1	4.48	2.061	0.08	0.025	0.266	10.502	13.44	0.077	9445.06
00-CAS- 3082	1.549	0.736	0.375	32895.8	4.26	2.035	0.12	0.025	0.3	9.202	14.08	0.086	11313.2
00-CAS- 3101	2.202	1.131	0.503	28784.4	3.26	2.942	0.18	0.025	0.426	16.041	12.81	0.137	18389.2
00-CAS- 3102	2.38	1.114	0.656	30001.3	3.88	3.621	0.21	0.025	0.435	19.825	17.66	0.144	15286.2
00-CAS- 3103	1.989	0.929	0.422	31781.9	3.06	2.562	0.12	0.025	0.371	12.965	9.77	0.117	10543.2

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 3017	309.73	0.05	0.025	14.92	46.32	3.9	3.728	7.43	0.05	3.83	2.536	0.88	26.2
00-CAS- 3020	348.75	0.05	0.025	14.14	46.31	4.16	3.596	8.56	0.06	4.67	2.429	0.7	39
00-CAS- 3023	196.79	0.05	0.025	10.84	25.64	4.53	2.777	3.12	0.025	1.96	1.858	1.59	20.7
00-CAS- 3029	188.05	0.68	0.52	13.63	34.77	3.62	3.693	4.29	0.1	3.55	2.473	0.25	16.3
00-CAS- 3030	183.01	0.11	0.36	8.87	31.04	3.03	2.305	6.91	0.07	2.86	1.619	0.53	16.1
00-CAS- 3051	209.17	0.05	0.26	7.96	36.78	3.19	1.997	6.61	0.08	4.06	1.618	0.25	13.3
00-CAS- 3052	278.9	0.05	0.14	9.46	62.35	3.42	2.488	7.99	0.07	5.56	2.019	0.87	19.2
00-CAS- 3053	290.33	0.05	0.06	9.96	49.48	3.81	2.528	8.46	0.07	5.31	2.124	0.25	20.9
00-CAS- 3054	276.94	0.05	0.025	12.71	49.37	3.97	3.256	4.82	0.06	6.2	2.645	0.79	21.3
00-CAS- 3055	242.82	0.82	0.025	12	64.02	4.06	2.99	4.81	0.05	6.14	2.437	0.57	22.5
00-CAS- 3056	368.73	0.25	0.025	14.73	70.23	4.13	4.014	13.54	0.06	7.47	2.852	0.99	26.1
00-CAS- 3057	240.79	0.43	0.16	13.75	42	3.88	3.588	7.43	0.1	4.45	2.677	0.5	24.5
00-CAS- 3058	262.45	0.05	0.025	10.21	44.26	4.53	2.47	4.76	0.08	5.13	1.923	0.9	24.6
00-CAS- 3059	207.22	0.05	0.15	9.2	40.74	3.46	2.457	6.2	0.08	3.98	2.053	0.57	19.5
00-CAS- 3060	216.51	0.05	0.025	7.99	29.52	3.64	2.075	6.88	0.29	3.84	1.585	0.7	18
00-CAS- 3061	260.38	0.18	0.025	9.33	35.38	3.26	2.39	6.15	0.08	4.6	1.881	0.25	15.4
00-CAS- 3063	306.84	0.12	0.025	10.79	66.71	3.64	2.833	6.33	0.07	5.25	2.119	0.68	25
00-CAS- 3066	268.41	0.96	0.46	15.28	66.07	5.52	3.802	7.21	0.14	5.26	3.134	0.66	26.4
00-CAS- 3067	284.71	0.6	0.65	10.68	56.86	3.69	2.702	9.26	0.05	5.78	2.139	0.59	21
00-CAS- 3068	307.43	0.55	0.63	12.07	61.35	4.78	2.949	8.83	0.07	5.78	2.42	0.59	21.1
00-CAS- 3069	208.73	0.6	1.08	8.27	41.7	3.65	2.134	9.63	0.06	4.22	1.743	0.53	15.4
00-CAS- 3070	250.31	0.97	0.91	11.02	50.15	4.8	2.937	7.58	0.07	6.23	2.325	0.72	14.3
00-CAS- 3071	268.77	0.63	1.04	9.17	54.86	4.21	2.233	7.45	0.025	5.52	1.716	1.1	15.4
00-CAS- 3073	211.9	0.33	1.02	9.14	48.76	4.3	2.238	6.78	0.07	4.72	1.743	0.94	17
00-CAS- 3074	278.36	0.25	0.16	16.63	48.78	3.5	4.147	6.54	0.025	7.03	3.233	0.65	29.4
00-CAS- 3076	326.94	0.88	0.44	11.94	62.83	4.27	2.97	8.53	0.08	6.33	2.482	0.57	24.2
00-CAS- 3077	181.15	0.4	0.45	8.35	36.1	3.92	2.113	9.16	0.06	3.14	1.678	0.81	16.2
00-CAS- 3078	332.31	0.35	0.39	12.37	72.09	3.8	3.167	13.68	0.025	6.34	2.391	0.25	22.2
00-CAS- 3079	257.37	0.38	0.77	10.44	49.66	3.68	2.623	6.74	0.06	6.3	1.932	0.56	18.8
00-CAS- 3080	294.42	0.52	0.92	9.4	54.6	4.45	2.372	10.58	0.05	5.25	1.929	0.55	15.3
00-CAS- 3081	248.69	0.53	0.98	11.06	39.51	4.11	2.674	7.79	0.025	4.63	2.096	0.25	15.5
00-CAS- 3082	283.9	0.28	0.63	9.92	41.84	3.82	2.491	7.88	0.06	5.65	2.009	0.85	16.6
00-CAS- 3101	433.19	0.13	0.28	16.14	153.45	6.74	4.191	13.25	0.16	4.73	3.165	0.68	25.1
00-CAS- 3102	364.45	0.62	0.29	21.65	107.48	10.94	5.402	23.4	0.24	6.77	3.785	0.69	27.6
00-CAS- 3103	224.84	0.75	0.23	13.29	139.44	8.28	3.22	18.36	0.13	5.84	2.381	0.64	22.6

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 3017	0.025	0.347	3.37	5	0.07	0.107	0.476	161.78	0.7	7.9	0.602	41.07	4.92
00-CAS- 3020	0.025	0.35	4.3	5	0.08	0.095	0.501	158.06	0.19	7.86	0.577	39.91	6.79
00-CAS- 3023	0.025	0.252	2.47	5	0.025	0.084	0.36	148.46	0.25	5.76	0.47	32.95	4.41
00-CAS- 3029	0.025	0.314	3.98	5	0.07	0.096	0.907	148.24	0.32	7.05	0.507	37.44	5.93
00-CAS- 3030	0.025	0.211	3.07	5	0.07	0.057	0.49	118.9	0.05	4.59	0.338	30.98	5
00-CAS- 3051	0.025	0.23	2.83	5	0.06	0.071	0.49	156.18	0.1	5.64	0.455	36.45	7.1
00-CAS- 3052	0.025	0.271	3.13	5	0.07	0.093	0.486	178.84	0.06	6.66	0.605	42.37	9.2
00-CAS- 3053	0.025	0.3	3.45	5	0.07	0.094	0.653	165.36	0.05	7	0.612	42.25	7.89
00-CAS- 3054	0.025	0.367	3.23	5	0.06	0.13	0.57	169.55	0.07	8.89	0.778	41.96	8.4
00-CAS- 3055	0.025	0.347	2.94	5	0.07	0.121	0.593	186.04	0.025	8.55	0.618	41.6	6.66
00-CAS- 3056	0.025	0.36	4.09	5	0.16	0.112	0.667	191.81	0.18	8.42	0.715	52.65	7.95
00-CAS- 3057	0.025	0.358	3.71	5	0.12	0.109	0.779	133.99	0.12	8.68	0.754	38.61	8.13
00-CAS- 3058	0.025	0.298	2.31	5	0.06	0.103	0.478	162.06	0.12	7.92	0.621	44.95	7.51
00-CAS- 3059	0.025	0.285	2.66	5	0.07	0.102	0.522	157.74	0.025	7.2	0.56	36.64	7.1
00-CAS- 3060	0.025	0.235	2.75	5	0.07	0.083	0.458	125.37	0.28	5.84	0.525	33.24	6.65
00-CAS- 3061	0.025	0.283	2.77	5	0.025	0.103	0.55	209.61	0.14	6.84	0.551	39.91	7.73
00-CAS- 3063	0.025	0.306	3.44	5	0.08	0.119	0.597	192.63	0.29	7.39	0.77	42.2	7.79
00-CAS- 3066	0.025	0.406	3.44	5	0.1	0.164	0.81	164.96	0.16	9.91	0.84	50.5	7
00-CAS- 3067	0.025	0.314	3.02	5	0.09	0.124	0.586	187.97	0.17	7.26	0.611	44.88	6.65
00-CAS- 3068	0.025	0.358	2.81	5	0.08	0.123	0.604	204.76	0.17	8.91	0.709	46.16	6.43
00-CAS- 3069	0.025	0.237	2.83	5	0.07	0.094	0.553	153.75	0.13	5.88	0.496	35.42	6.75
00-CAS- 3070	0.025	0.302	4.27	5	0.1	0.113	0.789	169.47	0.19	7.25	0.671	41.64	7.41
00-CAS- 3071	0.025	0.257	2.64	5	0.07	0.083	0.503	207.11	0.25	6.24	0.544	44.95	6.81
00-CAS- 3073	0.025	0.257	2.96	5	0.06	0.084	0.518	160.25	0.16	5.58	0.541	39.11	5.79
00-CAS- 3074	0.025	0.384	3.58	5	0.09	0.125	0.58	177.37	0.1	9.56	0.763	42.47	6.13
00-CAS- 3076	0.025	0.316	2.74	5	0.08	0.11	0.72	207.92	0.025	8.36	0.64	50.6	7.02
00-CAS- 3077	0.025	0.212	2.82	5	0.08	0.094	0.49	119.8	0.025	5.17	0.435	31.68	5.77
00-CAS- 3078	0.025	0.352	3.91	5	0.15	0.13	0.631	184.01	0.06	8.93	0.734	44.68	7.07
00-CAS- 3079	0.025	0.288	3.21	5	0.07	0.1	0.602	175.7	0.14	7.29	0.613	41.14	6.73
00-CAS- 3080	0.025	0.252	2.62	5	0.07	0.081	0.493	178.31	0.12	6.39	0.5	47.72	5.93
00-CAS- 3081	0.025	0.291	2.4	5	0.07	0.092	0.555	171.47	0.11	7.56	0.554	41.16	4.11
00-CAS- 3082	0.025	0.281	2.42	5	0.06	0.106	0.436	176	0.12	7.79	0.66	43.41	6.42
00-CAS- 3101	0.025	0.415	3.25	5	0.19	0.165	0.66	102.87	0.11	11.16	0.909	47.82	9.56
00-CAS- 3102	0.025	0.468	3.74	5	0.24	0.149	0.872	129.64	0.13	11.08	0.895	57.08	11.76
00-CAS- 3103	0.025	0.356	2.97	5	0.12	0.128	0.698	116.67	6.04	9.05	0.789	50.1	6.42

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 3104	2.43	18.8	13.56	17371	70	1.5	11511	9	26	106	54	39193	979
00-CAS- 3106	30.47	1725.38	972.78	35310	159	1.5	2087	26	182	635	178	114216	1036
00-CAS- 3107	1.17	89.32	45.63	20679	131	1.5	11668	12	55	177	55	47502	1058
00-CAS- 3151	6.37	3.39	3.72	21212	103	1.5	5188	5	15	40	32	28872	364
00-CAS- 3152	4.18	3.24	2.11	19408	263	1.5	5846	6	16	44	49	33437	302
00-CAS- 3153	3.62	3.25	2.34	21701	98	1.5	4657	6	14	39	90	28670	334
00-CAS- 3161	2.8	1.99	1.38	20424	77	1.5	3884	5	14	34	63	25790	277
00-CAS- 3162	2.6	1.3	1.16	20687	89	1.5	4221	5	12	40	33	25570	276
00-CAS- 3163	10.66	2.38	1.87	17812	60	1.5	4762	5	12	32	35	24508	307
00-CAS- 3164	12.75	2.31	2.11	16331	37	1.5	4660	5	12	39	30	25108	370
00-CAS- 3165	30.02	2.23	1.79	15478	35	1.5	4629	5	12	38	29	24421	356
00-CAS- 3166	9.11	4.66	2.17	16363	68	1.5	5494	5	14	29	44	24919	384
00-CAS- 3168	8.71	2.42	2.17	15400	93	1.5	5172	5	12	30	44	22984	356
00-CAS- 3169	12.65	2.06	1.64	14790	77	1.5	5451	5	12	31	30	24558	335
00-CAS- 3170	6.58	1.97	2.24	12016	80	1.5	5889	5	11	28	26	23344	376
00-CAS- 3172	8.31	2.01	1.92	14812	52	1.5	5072	5	14	34	35	26196	498
00-CAS- 3175	9.4	1.45	1.97	19367	154	1.5	4759	6	16	38	41	28820	455
00-CAS- 3176	8.94	1.53	1.65	17974	97	1.5	5062	5	13	35	24	25571	425
00-CAS- 3177	7.5	1.48	1.83	17834	152	1.5	4022	6	14	37	27	27386	361
00-CAS- 3178	7.22	1.25	1.5	25903	63	1.5	3809	6	15	40	21	28806	385
00-CAS- 3181	16.54	1.7	1.56	18439	107	1.5	5995	6	15	33	35	26903	517
00-CAS- 3182	3.22	1.64	1.82	21741	63	1.5	4360	6	14	38	22	28307	363
00-CAS- 3183	5.71	1.3	1.35	18923	89	1.5	3971	6	13	32	18	26596	361
00-CAS- 3184	7.65	1.11	1.52	24927	80	1.5	3947	7	14	38	18	31343	400
00-CAS- 3185	9.19	1.9	1.8	21419	265	1.5	5851	7	16	49	93	30808	560
00-CAS- 3189	3.18	1.14	1.83	19708	82	1.5	4705	6	13	34	22	25870	349
00-CAS- 3190	3.71	1.5	1.9	17845	74	1.5	5286	5	12	32	20	24727	332
00-CAS- 3191	4.9	1.96	2.93	27959	93	1.5	3392	6	18	42	42	33986	412
00-CAS- 3192	5.41	1.45	1.57	23666	63	1.5	4242	6	14	36	21	27707	355
00-CAS- 3193	14.88	1.28	1.69	19656	126	1.5	4918	5	13	35	31	25803	347
00-CAS- 3194	3.28	1.43	1.6	22138	85	1.5	4993	5	13	38	45	27455	322
00-CAS- 3197	6.39	3.46	1.83	20297	94	1.5	3942	6	14	38	32	27878	299
00-CAS- 3198	3.7	2.28	2.24	20958	80	1.5	5575	7	16	41	29	29953	403
00-CAS- 3200	2.78	3.16	2.61	21536	54	1.5	5053	6	13	39	26	28820	349
00-CAS- 3202	5.21	2.47	1.85	26173	33	1.5	3689	5	8	31	24	21039	263

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 3104	11	15381	361	4	2366	141	651	67	5	28	1320	133	17.5	10	71
00-CAS- 3106	51	130874	2709	4	121	933	420	239	5	6	2332	46	17.5	4	173
00-CAS- 3107	19	41574	656	4	1683	249	739	146	6	25	1319	82	17.5	11	80
00-CAS- 3151	7	4235	230	4	844	34	131	82	6	25	1430	115	17.5	8	33
00-CAS- 3152	12	4524	316	4	508	35	208	272	7	17	1056	108	17.5	9	38
00-CAS- 3153	8	3680	182	4	609	37	131	81	5	23	1423	113	17.5	9	30
00-CAS- 3161	10	4883	149	4	555	37	247	76	3	17	1281	90	17.5	5	32
00-CAS- 3162	9	4458	144	4	587	34	312	76	3	15	1355	96	17.5	4	34
00-CAS- 3163	5	3603	187	4	676	28	463	81	3	16	1187	110	17.5	5	31
00-CAS- 3164	6	3881	183	4	698	29	459	74	4	15	1231	109	17.5	8	31
00-CAS- 3165	5	3794	174	4	741	30	456	70	4	15	1153	105	17.5	8	29
00-CAS- 3166	6	3580	205	4	826	30	509	70	3	17	1081	105	17.5	6	31
00-CAS- 3168	5	3794	209	4	707	28	474	50	4	24	1133	96	17.5	6	29
00-CAS- 3169	5	3690	199	4	819	27	461	47	4	19	1232	112	17.5	6	31
00-CAS- 3170	5	3399	188	4	780	27	540	15	4	21	1073	101	17.5	7	28
00-CAS- 3172	6	3951	213	4	714	31	539	55	3	15	1184	119	17.5	5	33
00-CAS- 3175	8	4434	230	4	623	35	491	71	4	17	1206	113	17.5	6	37
00-CAS- 3176	7	4084	200	4	655	32	466	77	3	18	1198	106	17.5	5	33
00-CAS- 3177	6	3930	220	4	481	33	369	53	4	21	1183	109	17.5	5	31
00-CAS- 3178	8	4247	197	4	523	33	488	225	5	14	1139	111	17.5	6	36
00-CAS- 3181	7	4369	223	4	801	32	601	94	3	19	1031	103	17.5	6	34
00-CAS- 3182	8	4222	171	4	648	30	455	107	4	15	1055	114	17.5	6	34
00-CAS- 3183	7	3147	220	4	503	29	441	126	3	14	851	103	17.5	5	35
00-CAS- 3184	10	4199	235	4	537	34	568	162	4	14	1016	108	17.5	6	40
00-CAS- 3185	10	5542	276	4	755	40	406	59	6	34	1347	114	17.5	8	39
00-CAS- 3189	7	3728	185	4	676	31	495	85	4	16	1198	108	17.5	6	31
00-CAS- 3190	6	3664	195	4	809	28	562	74	4	18	1244	113	17.5	6	32
00-CAS- 3191	9	4290	223	4	450	36	636	178	4	14	1231	117	17.5	5	42
00-CAS- 3192	8	4169	189	4	640	32	568	132	4	16	1246	113	17.5	5	35
00-CAS- 3193	6	3944	225	4	682	32	621	111	3	16	1216	112	17.5	6	33
00-CAS- 3194	9	4382	187	4	910	32	416	118	4	18	1443	121	17.5	6	32
00-CAS- 3197	6	3938	180	4	652	32	499	130	4	17	1400	121	17.5	5	32
00-CAS- 3198	9	4902	225	4	819	34	548	98	4	22	1492	128	17.5	6	35
00-CAS- 3200	6	4175	214	4	826	32	523	109	6	25	1485	125	17.5	8	33
00-CAS- 3202	6	3104	125	4	467	22	1000	328	4	11	1067	95	17.5	6	27

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 3104	0.01	20193.4	N.M.	69.44	0.27	11061.9	0.07	30.563	23.6	114.49	1.243	57.73
00-CAS- 3106	0.1	39849.5	N.M.	164	0.32	2223.3	0.122	6.738	175.3	600	2.058	182.84
00-CAS- 3107	0.11	24070.9	N.M.	142.92	0.2	10990.2	0.063	33.847	54.18	212.39	2.169	60.18
00-CAS- 3151	0.01	26149.2	N.M.	108.53	0.39	5260.43	0.06	60.758	15.91	55.25	0.598	35.82
00-CAS- 3152	0.04	19490.1	N.M.	248.64	0.22	4452.65	0.05	44.256	12.45	44.28	0.616	45.6
00-CAS- 3153	0.01	22941	N.M.	101.29	0.2	4112.46	0.025	41.458	11.92	41.14	0.521	88.92
00-CAS- 3161	0.33	21164.1	N.M.	76.96	0.35	3511.84	0.071	24.525	11.59	34.9	0.719	62.28
00-CAS- 3162	0.08	17977.7	N.M.	84.14	0.14	3183.22	0.025	19.596	9.26	37.37	0.603	31.39
00-CAS- 3163	0.02	18224.5	N.M.	60.25	0.27	4251.25	0.025	46.081	10.75	32.27	0.51	34.48
00-CAS- 3164	0.01	16726.7	N.M.	35.71	0.32	3896.7	0.025	64.631	9.77	39.69	0.514	30.03
00-CAS- 3165	0.01	16445.4	N.M.	33.36	0.32	4130.36	0.025	60.99	9.5	39.45	0.482	29.13
00-CAS- 3166	0.01	16437.6	N.M.	66.73	0.21	4576.28	0.025	51.931	12.34	29.71	0.5	46.17
00-CAS- 3168	0.04	14492.9	N.M.	90.05	0.16	3993.6	0.025	45.184	8.74	27.44	0.377	42.13
00-CAS- 3169	0.01	15259.8	N.M.	74.59	0.2	4989.49	0.025	47.684	9.88	31.98	0.42	31.38
00-CAS- 3170	0.01	11077.2	N.M.	75.48	0.05	4556	0.025	34.567	7.59	25.55	0.41	23.44
00-CAS- 3172	0.01	14589.9	N.M.	49.39	0.05	4245.29	0.025	43.493	10.88	33.81	0.479	33.18
00-CAS- 3175	0.05	16436	N.M.	142.08	0.05	3546.94	0.025	60.4	11.73	35.31	0.622	36.69
00-CAS- 3176	0.06	18156.2	N.M.	97.71	0.23	4354.15	0.025	46.184	11.08	35.57	0.558	23.24
00-CAS- 3177	0.02	16152.3	N.M.	142.39	0.22	3132.42	0.025	54.653	10.72	35.48	0.589	25.01
00-CAS- 3178	0.05	23449.5	N.M.	62.98	0.22	2894.27	0.025	45.02	11.1	37.53	0.751	17.56
00-CAS- 3181	0.27	17136.9	N.M.	103.38	0.05	4680.68	0.071	59.311	10.96	31.4	0.518	32.05
00-CAS- 3182	0.03	21231.1	N.M.	63.02	0.39	3733.83	0.025	46.637	11.02	39.28	0.609	20.46
00-CAS- 3183	0.06	20199.9	N.M.	97.54	0.52	3580.48	0.025	56.688	11.57	35.94	0.696	17.04
00-CAS- 3184	0.11	21900.5	N.M.	75.31	0.19	3043.59	0.025	43.848	10.4	35.4	0.827	13.89
00-CAS- 3185	0.06	19426.8	N.M.	252.91	0.19	4620.3	0.025	45.969	11.59	44.84	0.84	87.59
00-CAS- 3189	0.04	19133.9	N.M.	85.29	0.11	3886.45	0.025	42.559	9.72	32.61	0.553	20.89
00-CAS- 3190	0.01	15559	N.M.	68.32	0.05	4212.26	0.065	38.336	8.87	28.93	0.485	16.39
00-CAS- 3191	0.03	25664.4	N.M.	84.07	0.39	2904.99	0.025	33.056	13.31	37.54	0.854	34.6
00-CAS- 3192	0.04	20760.7	N.M.	58.04	0.27	3183.97	0.025	37.761	10.3	31.94	0.63	16.88
00-CAS- 3193	0.09	18537.4	N.M.	116.99	0.15	4386.11	0.068	59.317	9.95	35.66	0.508	29.02
00-CAS- 3194	0.06	20269	N.M.	83.46	0.36	3936.84	0.057	45.189	9.03	35	0.569	41.61
00-CAS- 3197	0.05	18163	N.M.	90.41	0.52	3549.12	0.025	45.626	10.65	34.37	0.481	28.8
00-CAS- 3198	0.22	19103	N.M.	74.77	0.38	4756.37	0.025	60.935	11.08	36.33	0.704	24.65
00-CAS- 3200	0.05	19897.6	N.M.	51.15	0.38	4246.47	0.025	49.629	10.46	35.16	0.504	23.27
00-CAS- 3202	0.03	26321.3	N.M.	35.57	0.75	3386.8	0.025	26.604	6.96	31.78	0.616	24.27

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 3104	1.966	0.998	0.532	41159.4	3.82	3.019	0.12	0.025	0.375	14.873	13.56	0.132	16281.3
00-CAS- 3106	0.803	0.363	0.271	116269	4.23	1.271	0.07	0.025	0.157	4.628	50.25	0.057	5
00-CAS- 3107	2.264	1.095	0.535	51365.6	4.42	3.253	0.14	0.025	0.436	15.933	21.38	0.138	75761.8
00-CAS- 3151	1.936	0.874	0.649	33909.6	4.52	2.615	0.2	0.025	0.341	14.56	9.67	0.088	7669.48
00-CAS- 3152	1.83	0.882	0.67	29494.4	5.54	2.754	0.23	0.025	0.318	18.3	12.48	0.129	4755.97
00-CAS- 3153	1.838	0.831	0.661	27733.9	4.2	2.942	0.12	0.025	0.355	17.847	8.92	0.107	4089.96
00-CAS- 3161	1.016	0.471	0.369	21522.2	3.85	1.628	0.12	0.025	0.21	11.399	11.72	0.086	4931.15
00-CAS- 3162	0.892	0.429	0.288	20978.8	3.94	1.455	0.13	0.025	0.166	9.685	10.47	0.07	3949.41
00-CAS- 3163	1.169	0.527	0.433	23066.3	3.23	1.751	0.14	0.025	0.222	10.1	6.67	0.072	3659.61
00-CAS- 3164	1.991	0.823	0.631	22282.9	2.93	2.744	0.16	0.025	0.339	14.427	7.38	0.112	4145.07
00-CAS- 3165	1.824	0.791	0.613	22509	3.19	2.529	0.13	0.025	0.339	13.562	7.46	0.099	3908.3
00-CAS- 3166	1.46	0.6	0.416	22277.8	3.31	2.077	0.1	0.025	0.255	11.29	6.58	0.078	3537.26
00-CAS- 3168	1.318	0.55	0.392	18331.1	3.18	1.886	0.14	0.025	0.256	12.031	5.46	0.066	3445.03
00-CAS- 3169	1.354	0.628	0.434	23152.3	3.5	1.967	0.16	0.025	0.242	11.755	6.61	0.071	3661.32
00-CAS- 3170	1.376	0.654	0.404	18950.9	2.68	2.128	0.16	0.025	0.258	13.177	5.22	0.058	3052.58
00-CAS- 3172	1.227	0.51	0.378	21757.9	3.16	1.801	0.19	0.025	0.211	11.107	7.01	0.067	3816.68
00-CAS- 3175	1.329	0.579	0.383	22112.8	3.91	1.73	0.12	0.025	0.236	10.618	7.38	0.061	3689.11
00-CAS- 3176	1.211	0.526	0.414	23396.4	3.87	1.726	0.12	0.025	0.206	9.601	7.7	0.055	3934.74
00-CAS- 3177	1.116	0.532	0.37	21538.9	3.84	1.649	0.13	0.025	0.225	9.956	6.64	0.059	3391.41
00-CAS- 3178	1.445	0.707	0.443	23473.2	3.74	1.862	0.07	0.025	0.254	10.993	8.55	0.075	3825.2
00-CAS- 3181	1.348	0.623	0.438	21411.8	3.25	1.892	0.07	0.025	0.248	12.369	6.19	0.073	3826.88
00-CAS- 3182	1.358	0.521	0.393	24716.4	3.68	1.592	0.12	0.025	0.224	10.217	8.62	0.062	4142.89
00-CAS- 3183	1.288	0.59	0.367	24511.3	4.11	1.639	0.08	0.025	0.244	10.552	7.77	0.062	3221.7
00-CAS- 3184	1.197	0.631	0.394	24759.3	4.1	1.669	0.11	0.025	0.235	10.022	9.56	0.067	3536.3
00-CAS- 3185	1.762	0.877	0.575	25804.8	5.44	2.542	0.14	0.025	0.332	15.341	10.98	0.098	4699.49
00-CAS- 3189	1.123	0.569	0.408	21197.7	3.4	1.556	0.14	0.025	0.219	10.146	6.72	0.072	3531.83
00-CAS- 3190	1.185	0.525	0.368	19908.5	3.12	1.658	0.11	0.025	0.213	9.896	6.08	0.048	3086.49
00-CAS- 3191	0.861	0.441	0.335	27632.5	4.44	1.306	0.1	0.025	0.161	9.406	10.3	0.05	3838.56
00-CAS- 3192	1.004	0.458	0.346	22434.6	3.44	1.476	0.11	0.025	0.182	8.624	7.66	0.046	3428.75
00-CAS- 3193	1.272	0.658	0.395	21222.3	3.4	1.597	0.11	0.025	0.256	11.001	6.66	0.083	4001.16
00-CAS- 3194	1.274	0.599	0.346	21507.3	3.67	1.647	0.18	0.025	0.249	11.204	9.1	0.081	3863.86
00-CAS- 3197	1.229	0.505	0.363	22281.7	3.49	1.518	0.16	0.025	0.188	10.612	6.68	0.047	3611.1
00-CAS- 3198	1.396	0.628	0.405	23896.8	3.52	1.774	0.14	0.025	0.248	11.064	9.1	0.062	4430.29
00-CAS- 3200	1.865	0.875	0.604	23438.1	3.38	2.5	0.18	0.025	0.309	13.435	7.71	0.067	3755.34
00-CAS- 3202	1.37	0.54	0.43	18621.3	3.33	2.003	0.12	0.06	0.233	11.966	7.61	0.062	3101.26

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 3104	384.11	0.43	0.22	15.61	151.95	8	3.863	14.45	0.17	5.8	2.894	0.81	30.6
00-CAS- 3106	2826.34	0.14	0.09	6.73	962.32	10.84	1.535	10.28	0.19	6.49	1.381	0.68	5.8
00-CAS- 3107	823.36	0.22	0.22	16.14	282.1	10.79	4.025	22.08	0.14	7.03	3.093	0.83	24.6
00-CAS- 3151	311.44	0.42	0.78	14.84	50.55	4.71	3.599	4.7	0.025	7.22	2.76	0.67	25.5
00-CAS- 3152	302.06	1.1	1.45	17.13	31.96	7.32	4.47	4.1	0.025	6.58	2.987	1.08	16.9
00-CAS- 3153	198.87	1.27	1.13	17.92	36.18	4.14	4.331	3.58	0.025	5.46	3.066	0.61	21.9
00-CAS- 3161	151.23	1.44	1.04	10.13	34.4	4.52	2.748	4.03	0.07	3.5	1.885	0.65	19.2
00-CAS- 3162	122.18	1.27	1.18	8.7	28.18	4.56	2.356	3.4	0.025	2.78	1.518	0.25	14
00-CAS- 3163	182.65	0.52	1.19	10.09	27.03	4.65	2.658	4.5	0.025	3.74	1.967	1.38	16.3
00-CAS- 3164	173.58	0.52	1.08	15.13	27	3.85	3.701	3.6	0.025	4.81	2.95	0.25	15.6
00-CAS- 3165	177.87	0.4	1.03	14.56	27.28	3.24	3.629	3.4	0.025	5.06	2.602	0.58	16.5
00-CAS- 3166	186.5	0.42	0.93	11.13	27.46	4.07	2.813	4.02	0.025	3.79	2.131	0.58	17.5
00-CAS- 3168	184.71	0.16	0.54	11.64	21.95	5.24	3.023	3.21	0.025	3.44	2.029	0.93	23.9
00-CAS- 3169	196.4	0.32	0.73	11.36	23.46	3.21	2.925	3.64	0.025	4.15	2.102	0.25	20.1
00-CAS- 3170	170.5	0.2	0.44	11.91	20.6	3.01	3.211	2.75	0.025	3.72	2.264	0.25	19.8
00-CAS- 3172	196.13	0.33	0.66	10.56	26.96	3.72	2.761	4.86	0.025	3.69	1.981	0.55	16.1
00-CAS- 3175	192.81	0.41	0.86	9.41	26.75	3.84	2.576	5.76	0.025	3.94	1.973	0.25	16.1
00-CAS- 3176	193.29	0.44	1.16	9.57	27.92	3.89	2.42	5	0.025	4.06	1.793	0.25	19.1
00-CAS- 3177	182.96	0.38	0.74	9.03	27.55	3.67	2.315	5.42	0.025	3.61	1.586	0.55	21.4
00-CAS- 3178	202.31	0.53	0.93	10.42	25.44	4.75	2.676	5.43	0.28	4.72	2.198	0.52	13.6
00-CAS- 3181	194.26	0.74	0.71	11.36	25.4	5.12	3.081	4.8	0.09	3.41	2.254	0.82	19.6
00-CAS- 3182	162.08	0.34	0.61	9.42	25.48	3.58	2.513	4.96	0.06	4.7	1.791	0.25	15.1
00-CAS- 3183	222.12	0.56	0.72	9.07	26.87	4.61	2.54	5.4	0.06	3.99	1.62	0.6	16.2
00-CAS- 3184	203.77	0.56	0.85	9.15	25.48	5.02	2.479	6.26	0.06	3.83	1.794	0.25	13.1
00-CAS- 3185	238.62	0.45	0.5	14.16	32.67	4.38	3.754	5.84	0.025	6.05	2.727	0.56	32.2
00-CAS- 3189	159.43	0.32	0.99	9.22	25.26	3.51	2.484	4.93	0.025	4.04	1.813	0.57	16.9
00-CAS- 3190	159.93	0.23	0.79	9.16	21.79	3.33	2.391	3.91	0.025	3.6	1.796	0.51	16.1
00-CAS- 3191	191.72	1.5	1.25	8.45	28.93	4.62	2.2	6.96	0.06	3.89	1.639	0.62	13.1
00-CAS- 3192	161.19	0.4	1.17	7.56	25.62	4.18	2.078	5.2	0.025	3.57	1.606	0.75	14.2
00-CAS- 3193	192.12	0.54	1.18	9.98	27.81	3.71	2.726	5.1	0.025	3.36	1.995	0.54	15.2
00-CAS- 3194	159.5	0.78	0.95	10.11	23.31	3.32	2.678	3.5	0.025	3.64	1.91	0.55	17
00-CAS- 3197	159.82	0.42	0.92	10.22	26.38	3.43	2.603	4.04	0.025	3.76	1.816	0.25	16
00-CAS- 3198	199.28	0.38	0.94	10.4	28.65	4.14	2.773	5.88	0.07	3.98	2.056	0.25	20.3
00-CAS- 3200	187.67	0.37	0.92	13.19	27.12	3.58	3.544	4.39	0.025	6.14	2.625	0.62	24.8
00-CAS- 3202	120.92	0.82	1.3	11.54	20.58	3.81	2.971	3.42	0.05	4.37	2.402	0.25	12.5

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 3104	0.025	0.412	2.66	5	0.09	0.136	0.631	180.1	2	11.14	0.817	67.49	9
00-CAS- 3106	0.025	0.151	0.75	5	0.09	0.046	0.278	59.85	1.02	3.98	0.347	152.18	4.5
00-CAS- 3107	0.025	0.395	3.34	5	0.21	0.156	0.685	105.98	0.95	12.04	1.001	71.51	8.56
00-CAS- 3151	0.025	0.385	4.67	5	0.06	0.11	0.78	161.98	0.82	8.21	0.729	33.95	8.73
00-CAS- 3152	0.025	0.352	4.68	5	0.06	0.141	1.06	117.76	0.48	8.55	0.774	33.02	6.97
00-CAS- 3153	0.025	0.367	4.54	5	0.06	0.123	0.857	147.72	0.4	9.37	0.737	27.29	6.38
00-CAS- 3161	0.025	0.223	3.42	5	0.08	0.106	0.756	92.62	0.08	4.99	0.412	34.03	4.74
00-CAS- 3162	0.025	0.198	3.3	5	0.06	0.088	0.615	89.7	0.09	3.98	0.331	29.19	5.49
00-CAS- 3163	0.025	0.243	3.58	5	0.025	0.083	0.529	114.95	0.1	5.74	0.492	30.72	5.51
00-CAS- 3164	0.025	0.405	3.94	5	0.025	0.128	0.747	131.79	0.12	8.42	0.676	29.78	6.05
00-CAS- 3165	0.025	0.39	3.56	5	0.025	0.127	0.662	120.98	0.025	8.36	0.676	28.95	6
00-CAS- 3166	0.025	0.28	3.77	5	0.025	0.091	0.578	115.18	0.025	6.08	0.552	29.11	5.36
00-CAS- 3168	0.025	0.257	3.94	5	0.025	0.086	0.544	82	0.025	5.92	0.477	26.8	5.57
00-CAS- 3169	0.025	0.259	3.94	5	0.025	0.082	0.549	127.42	0.025	6.17	0.489	29.81	6.94
00-CAS- 3170	0.025	0.284	3.4	5	0.025	0.085	0.545	93.66	0.025	6.63	0.569	25.69	5.61
00-CAS- 3172	0.025	0.228	3.84	5	0.025	0.087	0.538	120.27	0.025	5.6	0.418	32.35	6.53
00-CAS- 3175	0.025	0.257	4.08	5	0.05	0.085	0.595	97.82	0.025	5.32	0.558	30.54	5.47
00-CAS- 3176	0.025	0.227	3.86	5	0.025	0.073	0.548	109.74	0.025	5.43	0.464	31.86	6
00-CAS- 3177	0.025	0.215	4.03	5	0.025	0.079	0.534	95.78	0.025	4.63	0.471	27.47	5.8
00-CAS- 3178	0.025	0.275	3.94	5	0.06	0.088	0.669	94.69	0.025	6.16	0.612	32.42	5.1
00-CAS- 3181	0.025	0.286	3.73	5	0.025	0.091	0.706	86.2	0.025	5.85	0.534	31.38	4.15
00-CAS- 3182	0.025	0.255	3.72	5	0.025	0.078	0.565	114.45	0.025	5.53	0.498	31.64	6.08
00-CAS- 3183	0.025	0.246	3.69	5	0.025	0.077	0.587	109.02	0.025	5.58	0.503	35.39	4.17
00-CAS- 3184	0.025	0.232	3.44	5	0.05	0.085	0.64	87.97	0.025	5.8	0.515	34.27	4.44
00-CAS- 3185	0.025	0.341	5.2	5	0.07	0.105	0.822	95.74	0.025	7.73	0.649	32.72	6.72
00-CAS- 3189	0.025	0.211	3.61	5	0.025	0.085	0.546	94.42	0.025	5.62	0.47	27.52	5.99
00-CAS- 3190	0.025	0.219	3.56	5	0.025	0.078	0.515	95.24	0.24	5.43	0.463	25.83	5.5
00-CAS- 3191	0.025	0.19	3.3	5	0.06	0.061	0.547	94.28	0.06	4.31	0.371	34.6	4.8
00-CAS- 3192	0.025	0.204	3.32	5	0.025	0.063	0.549	87.9	0.025	4.69	0.428	28.56	4.99
00-CAS- 3193	0.025	0.286	3.66	5	0.05	0.107	0.552	109.67	0.16	5.48	0.512	29.45	4.74
00-CAS- 3194	0.025	0.267	4.7	5	0.06	0.107	0.796	110.28	0.16	5.21	0.535	27.2	7.36
00-CAS- 3197	0.025	0.207	4.5	N.M.	0.025	0.052	0.61	95.44	0.21	5.02	0.483	26.17	5.94
00-CAS- 3198	0.025	0.258	5.04	N.M.	0.025	0.067	0.644	104.07	0.25	5.9	0.512	26.95	6.7
00-CAS- 3200	0.025	0.344	4.42	N.M.	0.025	0.112	0.925	99.55	0.22	8.03	0.684	26.73	6.58
00-CAS- 3202	0.025	0.23	4.03	N.M.	0.025	0.053	0.745	87.31	0.23	6.18	0.486	24.99	4.54

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 3203	2.62	2.59	2.16	15144	27	1.5	5031	7	14	35	32	31402	260
00-CAS- 3251	0.45	1.02	1.02	15262	58	1.5	3283	5	10	41	27	20298	369
00-CAS- 3252	0.45	0.45	1.64	25698	68	1.5	2414	7	16	61	44	31081	839
00-CAS- 3253	1.71	0.91	1.2	19789	80	1.5	3742	7	16	63	78	28806	2046
00-CAS- 3255	1.59	1.28	1.48	22910	115	1.5	2673	9	25	75	34	38041	2704
00-CAS- 3256	3.25	1.6	1.43	22962	112	1.5	2756	8	24	75	34	37692	2650
00-CAS- 3258	1.6	0.99	1.8	25660	99	1.5	3243	8	17	78	55	34843	2076
00-CAS- 3259	5.66	3.01	1.4	25533	84	1.5	3648	8	27	86	237	37048	1919
00-CAS- 3260	2.62	0.45	1.23	34796	164	1.5	3138	10	24	93	46	44200	2556
00-CAS- 3261	0.91	1.25	1.15	22707	137	1.5	3609	9	29	81	44	40439	3414
00-CAS- 3262	9.03	0.96	1.1	21864	99	1.5	2657	7	18	65	53	32961	1557
00-CAS- 3263	1.72	2.15	2.64	24330	112	1.5	3243	9	25	167	140	40536	2319
00-CAS- 3264	1.17	1.25	1.61	23854	114	1.5	3122	8	18	72	38	36324	1973
00-CAS- 3265	2.16	1.13	1.16	19064	93	1.5	2920	7	17	64	60	31506	2502
00-CAS- 3266	4.71	1.08	1.37	23739	83	1.5	3062	9	24	80	55	36272	1151
00-CAS- 3267	4.8	0.97	1.15	26598	126	1.5	2773	8	21	78	48	35743	2161
00-CAS- 3268	1.53	0.45	0.93	21263	67	1.5	1959	7	15	68	28	30425	1159
00-CAS- 3269	4.18	0.45	1.23	19203	66	1.5	3310	7	15	64	21	29854	1187
00-CAS- 3270	2.04	0.45	1.35	23222	67	1.5	2844	7	14	68	28	32006	715
00-CAS- 3271	5.01	1.52	1.03	24537	72	1.5	2966	8	17	79	236	36045	1482
00-CAS- 3272	1.59	1.83	1.17	25267	71	1.5	3222	8	18	83	307	37366	1596
00-CAS- 3273	2.01	0.45	1.06	24249	103	1.5	2234	8	17	75	32	34346	1453
00-CAS- 3274	0.45	0.45	0.67	18483	63	1.5	1930	6	15	66	40	27897	1187
00-CAS- 3275	0.9	0.45	0.94	18144	70	1.5	3034	7	14	61	27	30785	1244
00-CAS- 3276	0.45	0.45	1.34	22433	194	1.5	3120	10	27	91	36	41606	5041
00-CAS- 3301	2.03	9.46	3.65	14578	46	1.5	10371	8	17	113	106	28532	472
00-CAS- 3302	1.98	5.85	3	12497	44	1.5	6750	9	25	202	46	34205	413
00-CAS- 3303	1.47	9.06	3.81	23417	63	1.5	6720	12	34	314	80	48232	436
00-CAS- 3304	1.51	6.63	2.88	20080	62	1.5	9904	10	25	283	45	40563	535
00-CAS- 3305	1.08	3.82	2.94	21709	75	1.5	7628	11	32	262	34	42321	435
00-CAS- 3306	0.45	4.07	3.32	17223	49	1.5	6881	9	24	216	46	33088	347
00-CAS- 3307	1.02	3.11	3.01	16852	50	1.5	5457	6	16	100	26	24528	299
00-CAS- 3308	0.45	1.97	2.6	22266	65	1.5	4339	7	19	105	31	29810	427
00-CAS- 3310	1.94	5.43	4.05	23574	84	1.5	9034	10	21	138	56	41274	566
00-CAS- 3311	1.59	2.76	2.42	20970	49	1.5	5476	8	21	138	39	33056	266

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 3203	7	3779	199	4	716	32	737	98	3	14	1525	172	17.5	7	36
00-CAS- 3251	19	5292	153	4	259	30	348	54	4	15	1236	54	17.5	7	37
00-CAS- 3252	37	8242	251	4	151	39	959	135	4	11	1383	68	17.5	5	52
00-CAS- 3253	37	9143	262	4	194	43	864	78	4	13	1415	58	17.5	7	54
00-CAS- 3255	39	10443	490	4	166	56	712	64	5	14	1345	68	17.5	6	68
00-CAS- 3256	39	10366	480	4	168	56	690	72	6	14	1384	69	17.5	6	68
00-CAS- 3258	43	9886	335	4	208	47	772	76	5	15	1435	71	17.5	6	59
00-CAS- 3259	31	9650	373	4	183	168	807	115	6	18	1269	61	17.5	7	63
00-CAS- 3260	49	11843	370	4	216	67	569	132	7	18	1775	82	17.5	5	70
00-CAS- 3261	51	10492	554	4	175	62	1020	73	6	18	1483	76	17.5	8	71
00-CAS- 3262	41	8345	314	4	121	48	793	92	5	12	1332	68	17.5	7	65
00-CAS- 3263	42	13467	337	4	161	101	781	80	6	15	1560	77	17.5	6	59
00-CAS- 3264	38	8964	360	4	177	48	779	77	6	17	1561	80	17.5	7	58
00-CAS- 3265	46	7802	283	4	173	73	942	89	4	10	1293	69	17.5	7	54
00-CAS- 3266	34	10700	316	4	216	50	560	83	6	16	1667	86	17.5	7	53
00-CAS- 3267	31	7690	326	4	134	57	919	108	5	13	1459	79	17.5	6	52
00-CAS- 3268	28	8592	267	4	134	41	379	61	4	13	1381	62	17.5	5	49
00-CAS- 3269	25	7552	282	4	231	36	482	57	4	20	1498	80	17.5	5	43
00-CAS- 3270	33	8888	277	4	200	39	360	64	5	17	1501	72	17.5	5	50
00-CAS- 3271	40	9432	324	4	171	76	599	117	5	15	1498	74	17.5	6	60
00-CAS- 3272	43	9719	347	4	184	85	668	113	6	16	1514	75	17.5	6	61
00-CAS- 3273	35	9242	278	4	177	41	522	83	6	13	1656	76	17.5	8	52
00-CAS- 3274	37	8361	270	4	97	37	545	60	5	10	1407	58	17.5	5	47
00-CAS- 3275	23	7952	275	4	165	37	541	52	4	16	1171	61	17.5	6	48
00-CAS- 3276	84	11140	499	4	164	62	1046	71	6	13	1589	78	17.5	7	88
00-CAS- 3301	8	16435	253	4	2192	92	862	46	3	26	1099	123	17.5	8	43
00-CAS- 3302	8	21857	360	4	1335	152	574	52	5	18	989	130	17.5	7	45
00-CAS- 3303	10	18867	453	4	1166	236	586	90	6	25	1499	171	17.5	6	48
00-CAS- 3304	10	22118	371	4	2073	168	789	76	8	27	1335	148	17.5	9	49
00-CAS- 3305	11	19743	476	4	1419	188	645	82	4	23	1377	147	17.5	6	47
00-CAS- 3306	10	20440	251	4	1317	169	352	61	4	19	1266	108	17.5	4	37
00-CAS- 3307	14	10995	176	4	1053	100	357	60	4	16	1219	71	17.5	5	35
00-CAS- 3308	14	10360	162	4	793	105	370	79	3	17	1232	94	17.5	4	37
00-CAS- 3310	13	16149	289	4	1644	106	795	85	9	25	1356	114	17.5	11	42
00-CAS- 3311	9	12261	251	4	1033	97	480	66	4	21	1296	126	17.5	5	33

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 3203	0.03	12944.7	N.M.	25.22	0.32	4169.21	0.025	53.865	10.85	30.06	0.408	28.63
00-CAS- 3251	0.02	12581.2	N.M.	50.6	0.47	2542.04	0.025	32.21	7.14	33.91	2.423	23.69
00-CAS- 3252	0.04	20711.3	N.M.	65.61	0.36	1873.94	0.052	44.918	12.24	51.29	3.682	39.18
00-CAS- 3253	0.05	16344.3	N.M.	75.33	0.31	2986.59	0.025	43.885	11.74	53.5	4.979	70.1
00-CAS- 3255	0.03	19851.6	N.M.	112.41	0.64	2237.5	0.061	89.625	19.05	66.48	4.474	30.53
00-CAS- 3256	0.15	21340.5	N.M.	113.38	0.44	2545.77	0.06	95.402	19.59	71.19	4.661	31.85
00-CAS- 3258	0.04	22348.3	N.M.	95.98	0.18	2818.8	0.025	45.927	13.24	69.4	4.532	49.38
00-CAS- 3259	0.03	20154	N.M.	76.68	0.37	2720.36	0.056	92.68	20.36	69.53	6.872	196.6
00-CAS- 3260	0.04	27858.9	N.M.	148.44	0.26	2514.25	0.058	43.468	17.36	76.86	5.148	38.46
00-CAS- 3261	0.02	18124.8	N.M.	123.09	0.17	2762.88	0.025	93.397	21.76	66.45	5.609	36.32
00-CAS- 3262	0.03	17009.2	N.M.	88.42	0.25	2093.57	0.025	92.248	13.39	55.25	4.099	44.52
00-CAS- 3263	0.03	20601.3	N.M.	107.7	0.17	2662.68	0.025	70.828	19.18	147.84	12.088	123.33
00-CAS- 3264	0.05	22211.3	N.M.	112.14	0.3	2874.8	0.052	72.927	15.76	70.53	5.872	37.34
00-CAS- 3265	0.04	15762.8	N.M.	90.11	0.29	2341.24	0.025	64.832	12.62	56.88	4.397	53.48
00-CAS- 3266	0.05	20286	N.M.	79.41	0.43	2496.52	0.025	82.463	19.02	69.93	3.721	48.86
00-CAS- 3267	0.03	22012.2	N.M.	115.5	0.18	2207.1	0.025	62.395	16.3	68.88	4.255	41.79
00-CAS- 3268	0.02	17525.3	N.M.	58.93	0.21	1532.48	0.025	46.624	9.84	56.56	3.455	22.84
00-CAS- 3269	0.02	16358.9	N.M.	60.82	0.13	2787.34	0.025	38.758	11.11	56.61	3.039	17.58
00-CAS- 3270	0.03	19209.7	N.M.	60.61	0.11	2176.95	0.025	35.481	10.64	57.64	4.269	23.98
00-CAS- 3271	0.04	19840.9	N.M.	64.43	0.26	2279.62	0.061	47.207	12.04	66.45	6.946	203.76
00-CAS- 3272	0.06	20913.7	N.M.	68.88	0.57	2672.89	0.068	52.812	13	71.54	7.788	271.6
00-CAS- 3273	0.14	23218.3	N.M.	99.06	0.25	2035.65	0.06	61.443	13.1	72.2	4.273	29.15
00-CAS- 3274	0.03	17106.4	N.M.	55.71	0.13	1685.88	0.025	53.242	11.03	59.4	3.436	35.84
00-CAS- 3275	0.06	16680	N.M.	68.43	0.25	2534.26	0.025	55.194	9.61	57.32	4.393	25.49
00-CAS- 3276	0.03	21507.1	N.M.	182.31	0.85	2572.91	0.071	92.855	22.92	84.78	12.185	35.35
00-CAS- 3301	0.04	13684.5	N.M.	47.11	0.44	8792.1	0.025	23.266	13.13	110.12	0.432	104.3
00-CAS- 3302	0.03	10479.4	N.M.	42.74	0.05	5288.64	0.025	18.892	19.21	181.77	0.387	42.61
00-CAS- 3303	0.03	22421	N.M.	64.66	0.42	6034.47	0.054	39.868	30.4	319.64	1.107	81.65
00-CAS- 3304	0.06	18721.7	N.M.	63.33	0.14	8756.12	0.025	28.168	20.19	284.16	0.596	43.39
00-CAS- 3305	0.16	20397.8	N.M.	76.4	0.4	6764.84	0.079	33.008	25.21	256.8	0.635	32.12
00-CAS- 3306	0.02	15638.2	N.M.	48.89	0.47	5972.5	0.025	11.786	19.02	209.79	0.56	43.41
00-CAS- 3307	0.04	15000	N.M.	48.14	0.45	4381.41	0.025	18.624	11.92	94.65	0.8	24.7
00-CAS- 3308	0.03	19927.6	N.M.	65.06	0.31	3451.36	0.025	16.38	14.96	98.73	0.759	29.59
00-CAS- 3310	0.04	20175.8	N.M.	80.01	0.42	7310.05	0.051	32.583	13.9	126.54	0.757	50.72
00-CAS- 3311	0.03	19563.4	N.M.	47.63	0.55	4678.18	0.025	22.191	17.27	135.91	0.502	37.85

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 3203	1.575	0.668	0.427	23499.4	2.74	2.304	0.18	0.025	0.26	13.61	7.38	0.066	3205.36
00-CAS- 3251	1.386	0.627	0.472	14981.1	3.01	2.288	0.08	0.025	0.215	18.13	19.89	0.06	4399.75
00-CAS- 3252	1.136	0.484	0.367	23145.2	3.9	1.937	0.15	0.05	0.183	18.025	36.28	0.044	6562.68
00-CAS- 3253	1.355	0.579	0.433	21379.4	3.68	2.577	0.13	0.025	0.225	22.084	36.96	0.066	7490.08
00-CAS- 3255	1.427	0.519	0.4	29003.1	5.02	2.481	0.18	0.025	0.209	25.519	39.41	0.043	8762.6
00-CAS- 3256	1.543	0.694	0.44	31528.9	5.13	2.608	0.17	0.025	0.24	27.949	41.45	0.055	9483.09
00-CAS- 3258	1.39	0.545	0.441	27543.6	4.87	2.427	0.19	0.025	0.212	21.468	44.04	0.052	8522.85
00-CAS- 3259	1.499	0.613	0.516	26355.8	4	2.253	0.12	0.025	0.228	19.005	28.74	0.051	7345.06
00-CAS- 3260	1.169	0.436	0.325	31472.3	5.82	1.92	0.26	0.025	0.206	16.331	44.19	0.034	9170.1
00-CAS- 3261	1.751	0.742	0.549	28701	4.72	3.154	0.06	0.025	0.286	26.437	45.37	0.061	8110.74
00-CAS- 3262	1.461	0.615	0.371	24664.5	3.88	2.645	0.12	0.05	0.219	20.954	38.32	0.039	6408.6
00-CAS- 3263	1.269	0.551	0.396	30872.4	4.64	2.483	0.11	0.025	0.221	24.355	40.58	0.044	11041.2
00-CAS- 3264	1.573	0.671	0.533	30704.8	5.16	2.907	0.23	0.06	0.268	33.14	42.97	0.043	8132.24
00-CAS- 3265	1.813	0.671	0.544	24515.3	3.9	3.007	0.17	0.05	0.269	27.832	45.02	0.06	6513.27
00-CAS- 3266	1.346	0.588	0.519	28667.6	4.1	2.508	0.12	0.025	0.226	26.136	32.55	0.043	8897.44
00-CAS- 3267	1.43	0.627	0.331	27276.7	4.76	2.297	0.13	0.025	0.219	19.972	28.3	0.047	6266.95
00-CAS- 3268	1.013	0.383	0.37	21837.3	3.49	1.916	0.19	0.025	0.146	20.183	25.76	0.026	6781.64
00-CAS- 3269	1.108	0.547	0.268	22863.2	3.43	1.616	0.13	0.025	0.176	15.413	23.8	0.036	6321
00-CAS- 3270	1.139	0.317	0.266	23957.2	4.12	1.872	0.11	0.025	0.157	18.695	31.08	0.038	7062.41
00-CAS- 3271	1.275	0.499	0.357	26973.3	4.22	1.967	0.11	0.025	0.209	16.95	38.11	0.038	7628.37
00-CAS- 3272	1.371	0.628	0.389	28525.6	4.32	2.041	0.08	0.06	0.235	17.93	40.08	0.051	7983.75
00-CAS- 3273	1.828	0.721	0.55	29495.1	4.9	3.175	0.18	0.025	0.285	29.738	36.48	0.05	8473.58
00-CAS- 3274	1.037	0.363	0.274	22711.5	3.36	1.819	0.09	0.025	0.118	23.56	37.38	0.019	7377.39
00-CAS- 3275	1.303	0.519	0.392	24805	3.77	2.3	0.11	0.025	0.2	26.638	22.89	0.039	7054.08
00-CAS- 3276	1.826	0.712	0.459	35056.7	6.34	3.074	0.21	0.025	0.302	27.009	84.18	0.063	10095.7
00-CAS- 3301	1.849	0.795	0.334	24755	2.73	2.231	0.2	0.025	0.289	11.815	7.4	0.068	14637.3
00-CAS- 3302	1.533	0.696	0.304	27275.1	2.44	1.858	0.11	0.025	0.254	9.703	6.97	0.07	17541.2
00-CAS- 3303	1.33	0.629	0.291	41653.4	4.01	1.827	0.17	0.025	0.24	8.609	11.12	0.059	17093.9
00-CAS- 3304	2.006	0.921	0.389	34118.8	3.64	2.397	0.07	0.025	0.343	11.912	9.43	0.086	20288.9
00-CAS- 3305	1.24	0.633	0.255	36987.2	3.7	1.521	0.11	0.025	0.209	7.963	9.92	0.04	17263.7
00-CAS- 3306	0.86	0.372	0.207	28458.3	3.03	0.952	0.15	0.025	0.157	5.58	10.24	0.03	17975.5
00-CAS- 3307	1.057	0.46	0.263	19532	3	1.469	0.12	0.025	0.185	9.456	12.95	0.053	9601.84
00-CAS- 3308	0.834	0.393	0.195	24879	3.61	1.154	0.15	0.025	0.143	7.468	12.74	0.037	9080.9
00-CAS- 3310	2.11	1.172	0.416	32341.1	3.95	2.904	0.19	0.025	0.427	14.816	12.41	0.097	13313.3
00-CAS- 3311	1.106	0.428	0.238	28147.4	3.43	1.393	0.23	0.025	0.203	7.748	9.39	0.044	11089.6

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 3203	163.23	0.38	1	13.42	26.77	3.13	3.436	2.62	0.025	3.25	2.536	0.25	12.9
00-CAS- 3251	123.6	0.26	0.73	17.88	25.05	6.47	4.658	6.86	0.06	3.63	3.012	0.25	13.1
00-CAS- 3252	193.04	0.41	1.17	14.83	31.8	6.5	4.011	11.44	0.08	3.61	2.456	1.08	10.1
00-CAS- 3253	212.58	0.37	1	17.68	36.23	6.58	4.96	27.55	0.06	3.77	3.184	0.74	12.1
00-CAS- 3255	397.59	0.34	0.78	18.88	47.98	11.56	5.137	26.53	0.2	5.34	3.091	1.08	12.7
00-CAS- 3256	419.64	0.37	0.79	21.06	50.56	12.17	5.733	27.18	0.24	5.52	3.461	0.99	14.4
00-CAS- 3258	280.45	0.47	0.88	17.11	40.58	8.14	4.685	24.14	0.13	5.35	2.813	1.9	14.3
00-CAS- 3259	285.1	0.48	1.33	15.9	142.08	11.99	4.283	17.55	0.32	4.68	2.783	0.72	15.1
00-CAS- 3260	291.15	0.75	1.14	13.11	54.5	8.33	3.707	26.41	0.14	5.99	2.555	0.92	15.7
00-CAS- 3261	424.98	0.53	0.7	22.28	49.14	12.68	6.134	31.56	0.24	5.42	3.857	1.03	15.3
00-CAS- 3262	250.99	0.58	1	17.39	38.28	10.15	4.709	16.35	0.17	4.34	2.999	1.32	10.2
00-CAS- 3263	265.67	0.64	0.61	16.64	87.74	7.48	4.879	20.63	0.17	5.04	3.078	0.81	13.5
00-CAS- 3264	318.9	0.57	0.71	24.62	44.96	8.9	6.88	24.07	0.12	6.07	3.858	1.1	16.9
00-CAS- 3265	231.24	0.81	1.08	23.39	63.42	8.48	6.209	20.51	0.12	4.22	3.864	0.8	9.8
00-CAS- 3266	249.63	0.41	0.68	19.71	41.8	8.44	5.388	17.93	0.17	5.61	3.149	1.02	14.3
00-CAS- 3267	269.33	0.75	1.3	17.01	49.09	7.94	4.638	26.33	0.13	5.02	2.998	0.71	10.9
00-CAS- 3268	210.18	0.37	0.63	15.62	31.55	5.94	4.379	16.27	0.08	3.88	2.646	0.58	10.4
00-CAS- 3269	222.24	0.29	0.56	12.34	30.05	4.58	3.231	20.04	0.08	4.07	2.075	0.62	16.8
00-CAS- 3270	216.14	0.32	0.54	14.24	29.38	5.69	3.97	13.86	0.09	4.35	2.421	1.25	14.4
00-CAS- 3271	253.74	0.46	1.07	14.2	64.53	7.68	3.685	28.62	0.13	5	2.366	0.88	13.9
00-CAS- 3272	270.63	0.49	1.08	14.39	74.71	8.96	3.964	27.49	0.14	5.04	2.683	0.93	14.5
00-CAS- 3273	249.53	0.55	0.56	23.07	35.62	6.83	6.262	14.4	0.13	6.42	3.658	0.84	12.3
00-CAS- 3274	236.42	0.33	0.73	15.62	31.26	4.44	4.343	16.32	0.08	4.56	2.465	0.62	8.7
00-CAS- 3275	242.85	0.28	0.61	18.93	31.31	5.4	5.24	21.31	0.15	4.33	2.979	0.75	15.6
00-CAS- 3276	429.33	0.39	0.96	23.2	56.53	13.94	6.242	48.88	0.18	6.22	3.887	2.08	12.5
00-CAS- 3301	227.46	0.18	0.17	12.54	86.4	2.83	2.999	3.94	0.025	3.18	2.55	0.25	26.1
00-CAS- 3302	292.93	0.18	0.15	9.79	137.22	2.29	2.451	3.26	0.025	5.11	1.988	0.25	17.5
00-CAS- 3303	412.42	0.38	0.46	9	238.48	3.45	2.185	8.8	0.025	6.74	1.951	0.73	25.6
00-CAS- 3304	332.56	0.21	0.3	12.34	165.24	3.52	3.073	4.88	0.025	9.09	2.616	1.81	28.7
00-CAS- 3305	420.89	0.37	0.41	8.53	176.38	3.28	1.992	5.1	0.1	3.96	1.725	0.75	22.8
00-CAS- 3306	225.54	0.24	0.18	5.89	156.22	3.03	1.392	4.22	0.025	3.82	1.12	0.25	18.9
00-CAS- 3307	148.95	0.19	0.57	9.67	94.5	4.06	2.366	6.6	0.025	3.58	1.691	0.83	15.8
00-CAS- 3308	143.37	0.32	0.68	6.83	99.86	3.92	1.823	5.47	0.025	2.85	1.399	0.54	16.8
00-CAS- 3310	237.6	0.19	0.38	15.19	92.27	4.53	3.717	6.63	0.025	8.94	2.866	1.69	22.6
00-CAS- 3311	221.49	0.2	0.49	8.21	92.62	2.75	1.979	2.93	0.025	4.06	1.512	0.25	21.3

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 3203	0.025	0.308	4.73	N.M.	0.025	0.074	0.732	136.5	0.12	7.34	0.579	29.57	5.92
00-CAS- 3251	0.025	0.262	4.79	N.M.	0.11	0.081	4.976	37.56	0.34	6.31	0.49	30.3	4.24
00-CAS- 3252	0.025	0.214	6.83	N.M.	0.1	0.04	8.987	45.01	0.68	5.13	0.395	42.14	5.85
00-CAS- 3253	0.025	0.289	7.26	N.M.	0.22	0.053	5.88	38.64	1.11	6.44	0.461	44.13	5.33
00-CAS- 3255	0.025	0.304	11.28	N.M.	0.21	0.057	3.565	49.74	0.37	6.18	0.42	57.31	8.18
00-CAS- 3256	0.025	0.302	12.08	N.M.	0.22	0.053	3.699	59.98	0.29	6.47	0.459	58.79	7.66
00-CAS- 3258	0.025	0.277	7.73	N.M.	0.2	0.065	1.515	56.21	0.14	6.22	0.402	47.38	6.66
00-CAS- 3259	0.025	0.3	7.68	N.M.	0.19	0.069	1.376	41.39	0.13	6.35	0.489	48.53	4.91
00-CAS- 3260	0.025	0.233	6.87	N.M.	0.22	0.05	1.254	59.21	0.08	5.08	0.333	53.99	6.86
00-CAS- 3261	0.025	0.409	13.03	N.M.	0.27	0.07	2.18	53.9	0.16	7.44	0.601	54.08	5.1
00-CAS- 3262	0.025	0.294	9.62	N.M.	0.14	0.059	10.637	49.13	0.11	6.07	0.438	51.6	4.1
00-CAS- 3263	0.025	0.257	8.16	N.M.	0.21	0.049	1.407	61	0.6	5.5	0.402	45.34	5.26
00-CAS- 3264	0.025	0.335	11.24	N.M.	0.22	0.069	2.519	71.78	0.08	7.45	0.481	50.26	8.5
00-CAS- 3265	0.025	0.349	10.28	N.M.	0.19	0.072	2.638	55.6	0.2	7.28	0.529	43.89	7.11
00-CAS- 3266	0.025	0.284	8.45	N.M.	0.14	0.055	1.335	72.2	0.12	6.54	0.42	41.34	6.14
00-CAS- 3267	0.025	0.288	9.71	N.M.	0.18	0.056	1.493	62.31	0.15	6	0.439	40.99	6.33
00-CAS- 3268	0.025	0.21	7.47	N.M.	0.15	0.026	1.058	43.8	0.12	4.19	0.304	38.72	5.18
00-CAS- 3269	0.025	0.192	6.34	N.M.	0.13	0.044	1.494	65.92	0.025	4.64	0.35	34.37	5.46
00-CAS- 3270	0.025	0.204	5.73	N.M.	0.15	0.038	1.033	54.89	0.07	4.5	0.317	38.38	5.06
00-CAS- 3271	0.025	0.269	6.62	N.M.	0.2	0.069	1.453	54.78	0.07	5.13	0.398	46.86	4.68
00-CAS- 3272	0.025	0.26	6.94	N.M.	0.22	0.055	1.713	58.64	0.08	5.55	0.459	48.99	4.75
00-CAS- 3273	0.025	0.371	9.4	N.M.	0.18	0.068	12.73	67.71	0.21	8.28	0.518	45.37	7.03
00-CAS- 3274	0.025	0.196	5.83	N.M.	0.11	0.026	0.919	49.44	0.05	4.57	0.281	38.41	4.29
00-CAS- 3275	0.025	0.265	7.18	N.M.	0.2	0.042	1.18	53.3	0.025	5.36	0.374	39.07	5.37
00-CAS- 3276	0.025	0.415	14.6	N.M.	0.36	0.079	2.559	66.73	0.22	7.5	0.558	77.27	8.18
00-CAS- 3301	0.025	0.308	2.35	N.M.	0.06	0.074	0.422	120.51	0.07	8.35	0.623	32.08	5.7
00-CAS- 3302	0.025	0.262	2.13	N.M.	0.025	0.078	0.491	115.27	0.6	6.8	0.625	31.09	3.51
00-CAS- 3303	0.025	0.246	3.14	N.M.	0.07	0.083	0.525	174.02	0.17	6.2	0.483	37.18	6.44
00-CAS- 3304	0.025	0.334	3.16	N.M.	0.05	0.111	0.59	148.91	0.11	9.61	0.794	36.22	4.73
00-CAS- 3305	0.025	0.232	2.46	N.M.	0.025	0.06	0.441	147.05	0.27	5.6	0.474	34.34	4.17
00-CAS- 3306	0.025	0.151	2.36	N.M.	0.025	0.043	0.334	107.01	0.11	3.98	0.352	24.88	3.52
00-CAS- 3307	0.025	0.205	3.02	N.M.	0.06	0.056	0.52	65.78	0.07	5.02	0.456	26.48	4.12
00-CAS- 3308	0.025	0.143	2.19	N.M.	0.025	0.053	0.385	87.64	0.1	3.89	0.321	29.07	4.69
00-CAS- 3310	0.025	0.354	4.01	N.M.	0.07	0.113	0.67	103.94	0.14	10.57	0.897	28.49	7.01
00-CAS- 3311	0.025	0.183	2.84	N.M.	0.025	0.057	0.406	121.53	0.19	5.1	0.423	25.5	6.26

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 3312	1.52	3.25	2.43	21565	52	1.5	5129	8	20	133	40	32101	244
00-CAS- 3313	1.02	1.08	1.22	17332	53	1.5	4472	6	15	84	28	24883	239
00-CAS- 3315	4.92	5.49	3.81	18561	49	1.5	9411	10	30	338	40	40418	496
00-CAS- 3316	2.56	4.61	3	15815	45	1.5	7099	10	31	263	42	41906	469
00-CAS- 3318	1.59	1.72	1.44	16641	44	1.5	4839	5	13	79	20	21471	265
00-CAS- 3319	0.45	2.24	1.14	15440	42	1.5	4597	5	11	72	19	20583	272
00-CAS- 3320	2.23	3.41	2.69	24876	63	1.5	5101	9	25	170	37	37018	328
00-CAS- 3322	2.69	8.6	20.13	16731	48	1.5	6412	10	30	276	70	42189	425
00-CAS- 3324	4.01	3.72	3.54	23039	64	1.5	6016	9	28	205	33	37466	354
00-CAS- 3325	1.4	2.79	2.9	20774	52	1.5	5397	8	19	107	38	32449	308
00-CAS- 3326	3.39	15.15	6.17	21126	59	1.5	11737	10	23	206	74	37849	445
00-CAS- 3327	1.23	2.43	1.94	14809	54	1.5	2451	7	21	143	31	28458	238
00-CAS- 3328	1.52	3.75	2.22	15351	48	1.5	6133	7	16	105	34	27046	292
00-CAS- 3329	1.85	7.69	2.34	17758	73	1.5	7246	9	16	100	40	36123	369
00-CAS- 3331	0.96	2.69	1.85	17460	56	1.5	6225	8	18	124	21	26038	335
00-CAS- 3332	3.77	15.06	2.82	17890	49	1.5	7463	10	17	132	106	41654	373
00-CAS- 3333	2.4	7.95	4.06	20075	79	1.5	9363	11	22	112	68	40187	873
00-CAS- 3334	2.9	8.58	4.32	26858	76	1.5	7444	12	39	287	82	46575	499
00-CAS- 3335	1.96	3.44	2.83	24209	64	1.5	8039	10	24	212	50	41724	576
00-CAS- 3336	1.41	5.72	3.23	17066	50	1.5	8962	10	28	228	56	38574	433
00-CAS- 3337	2.68	4.48	3.38	13386	44	1.5	5493	9	24	181	49	36331	457
00-CAS- 3338	1.67	4.06	2.79	15930	43	1.5	9713	9	22	196	44	33756	421
00-CAS- 3339	2.21	13.61	2.8	18485	54	1.5	8876	10	25	227	120	37125	438
00-CAS- 3340	1.99	7.82	3.09	13304	38	1.5	7960	8	19	154	58	30010	294
00-CAS- 3341	1.63	5.79	2.53	11562	32	1.5	6021	8	22	170	51	32505	316
00-CAS- 3342	1.46	4.72	3.24	23363	56	1.5	9924	12	29	307	60	47653	467
00-CAS- 3343	2.78	6.19	3	24323	70	1.5	11303	11	25	272	67	43957	537
00-CAS- 3344	2.61	4.11	4.09	18937	52	1.5	12437	10	27	193	46	37905	610
00-CAS- 3345	1.26	3.85	2.37	16383	36	1.5	7505	9	25	202	27	36018	335
00-CAS- 3347	1.62	3.58	2.76	20527	50	1.5	10752	9	25	297	36	36648	507
00-CAS- 3348	1.83	5.61	1.86	15666	49	1.5	7577	8	18	125	44	32359	535
00-CAS- 3349	0.45	2.63	2.64	23061	60	1.5	7199	11	33	322	26	43298	416
00-CAS- 3350	1.32	3.57	2.52	18705	44	1.5	6777	10	37	378	29	41896	368
00-CAS- 3351	1.71	5.11	2.68	13444	36	1.5	9245	8	21	135	38	32881	334
00-CAS- 3352	1.73	4.12	2.91	15865	37	1.5	8649	8	22	177	25	32706	374

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 3312	8	11298	231	4	953	93	534	72	4	21	1192	122	17.5	5	32
00-CAS- 3313	14	10381	169	4	908	85	393	55	3	15	1066	65	36	4	34
00-CAS- 3315	8	26560	490	4	1995	189	770	82	7	26	1277	145	17.5	9	50
00-CAS- 3316	9	23141	470	4	1479	183	547	69	7	20	1383	152	17.5	6	48
00-CAS- 3318	13	8542	155	4	976	77	230	58	3	15	1337	57	17.5	4	28
00-CAS- 3319	12	7737	148	4	926	68	291	62	3	15	1201	56	17.5	4	31
00-CAS- 3320	15	12262	291	4	1070	159	393	79	5	22	1467	115	35	5	41
00-CAS- 3322	10	19667	449	4	1232	185	521	69	7	18	1200	140	17.5	6	44
00-CAS- 3324	13	13154	307	4	1191	175	319	83	4	20	1405	118	40	4	40
00-CAS- 3325	13	11613	255	4	887	98	487	59	4	21	1295	98	44	5	35
00-CAS- 3326	10	19084	336	4	2418	126	751	68	8	31	1338	131	17.5	12	42
00-CAS- 3327	10	10243	223	4	293	110	264	86	3	12	521	84	46	3	29
00-CAS- 3328	10	11242	191	4	1265	90	379	62	4	18	1167	102	17.5	7	31
00-CAS- 3329	13	10819	211	4	1125	66	482	102	7	15	849	82	17.5	7	37
00-CAS- 3331	12	12221	231	4	1397	90	347	67	4	18	1354	84	17.5	5	35
00-CAS- 3332	8	10956	201	4	1436	112	539	55	10	19	1167	98	17.5	11	36
00-CAS- 3333	12	16369	359	4	2055	105	771	55	7	26	1365	122	17.5	9	49
00-CAS- 3334	11	20954	633	4	1716	245	598	111	6	29	1402	160	17.5	6	47
00-CAS- 3335	11	14838	389	4	1584	126	728	82	6	29	1484	156	17.5	7	46
00-CAS- 3336	7	20396	432	4	2003	168	664	70	9	26	1262	153	17.5	9	46
00-CAS- 3337	8	14922	368	4	1166	130	625	66	7	17	1180	139	17.5	7	42
00-CAS- 3338	7	21865	302	4	2455	130	724	63	5	28	1159	139	17.5	9	45
00-CAS- 3339	8	20952	338	4	1958	168	814	71	8	25	1124	129	17.5	10	46
00-CAS- 3340	6	16516	252	4	1995	100	658	56	4	22	997	133	17.5	8	38
00-CAS- 3341	6	18568	304	4	1356	127	585	59	5	17	890	133	17.5	6	40
00-CAS- 3342	10	20965	441	4	2416	192	773	91	12	31	1512	166	17.5	11	48
00-CAS- 3343	10	22434	398	4	2818	195	732	103	9	33	1582	161	17.5	10	51
00-CAS- 3344	8	24985	475	4	2876	128	859	82	5	34	1582	164	17.5	10	53
00-CAS- 3345	8	17431	336	4	1778	146	472	61	6	23	1342	140	17.5	6	39
00-CAS- 3347	10	22814	344	4	2324	158	643	101	6	29	1424	132	17.5	9	45
00-CAS- 3348	10	11563	148	4	1572	47	516	63	6	19	1079	73	17.5	9	40
00-CAS- 3349	10	21253	474	4	1430	230	596	92	5	26	1350	142	17.5	5	44
00-CAS- 3350	8	27384	534	4	1361	225	550	93	6	23	1217	134	17.5	5	43
00-CAS- 3351	5	15543	336	4	1992	95	759	56	4	24	1290	158	17.5	8	43
00-CAS- 3352	5	16346	336	4	1686	118	688	75	4	23	1252	141	17.5	7	41

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 3312	0.15	20307	N.M.	50.28	0.45	4583.38	0.025	22.434	15.62	124.8	0.492	36.55
00-CAS- 3313	0.03	17499.4	N.M.	52.06	0.41	3955.87	0.025	16.459	11.04	83.92	0.722	26.08
00-CAS- 3315	0.1	16984.9	N.M.	50.05	0.62	8473.26	0.083	26.599	24.09	328.01	0.469	37.49
00-CAS- 3316	0.05	13647.6	N.M.	43.91	0.59	5980.11	0.025	25.773	24.76	246.16	0.521	38.29
00-CAS- 3318	0.04	13353.4	N.M.	40.28	0.27	3769.05	0.062	17.117	9.54	70.62	0.803	18.2
00-CAS- 3319	0.04	12882.9	N.M.	40.09	0.56	3562.89	0.069	19.359	7.95	64.72	0.762	16.1
00-CAS- 3320	0.02	21680	N.M.	56.57	0.22	4093.31	0.025	26.268	18.53	147.35	0.831	32.48
00-CAS- 3322	0.2	16161.8	N.M.	48.07	0.16	6026.17	0.025	26.414	24.51	278.61	0.543	70.03
00-CAS- 3324	0.02	20122.8	N.M.	62.34	0.26	4873.67	0.055	14.766	21.3	183.68	0.816	29.43
00-CAS- 3325	0.05	19293.9	N.M.	49.07	0.32	4535.32	0.025	27.967	13.72	98.85	0.733	34.94
00-CAS- 3326	0.03	20058	N.M.	59.61	0.55	10166.9	0.025	30.824	17.88	197.22	0.519	70.37
00-CAS- 3327	0.01	14136.1	N.M.	52.25	0.57	2124.19	0.025	10.832	18.29	135.28	0.596	30.08
00-CAS- 3328	0.05	14398.8	N.M.	45.21	0.48	5214.91	0.025	15.63	12.19	98.21	0.5	30.8
00-CAS- 3329	0.19	16577.4	N.M.	68.95	0.42	6351.74	0.08	21.778	11.41	91.24	0.727	35.97
00-CAS- 3331	0.02	16300.5	N.M.	50.67	0.36	5442.73	0.076	16.404	13.38	110.46	0.845	17.89
00-CAS- 3332	0.05	17384.4	N.M.	47.46	0.49	6568.27	0.025	21.957	12.5	121.37	0.587	96.94
00-CAS- 3333	0.03	17613	N.M.	73.83	0.36	7920.53	0.025	28.028	15.75	99.59	0.734	60.06
00-CAS- 3334	0.01	23477.1	N.M.	71.64	0.42	6263.5	0.025	41.691	31.18	252.6	0.69	72.36
00-CAS- 3335	0.03	20908	N.M.	59.17	0.42	6761.11	0.069	37.087	17.94	183.36	0.79	43.58
00-CAS- 3336	0.03	15000.8	N.M.	45.03	0.36	7431.73	0.025	25.916	20.38	192.65	0.396	48.88
00-CAS- 3337	0.02	12812.5	N.M.	42.22	0.31	5063.22	0.025	25.421	18.66	177.52	0.551	47.06
00-CAS- 3338	0.03	14030.3	N.M.	43.15	0.13	8468.56	0.025	23.134	16.18	186.45	0.353	38.12
00-CAS- 3339	0.03	18826.7	N.M.	57.74	0.46	8546.85	0.025	29.51	20.19	240.07	0.602	116.69
00-CAS- 3340	0.03	11919.4	N.M.	37.98	0.18	6941.31	0.025	20.054	14.39	148.09	0.285	54.12
00-CAS- 3341	0.01	10061.1	N.M.	31.62	0.32	5218.21	0.025	18.002	16.56	163.88	0.356	47.38
00-CAS- 3342	0.01	18853.7	N.M.	52.65	0.05	7152.91	0.055	33.684	19.81	255.5	0.54	48.72
00-CAS- 3343	0.01	20811.2	N.M.	62.9	0.05	8300.14	0.025	24.886	17.39	228.41	0.484	54.04
00-CAS- 3344	0.21	16514.2	N.M.	48.99	0.3	11122.1	0.025	25.168	19.08	177.81	0.45	36.91
00-CAS- 3345	0.06	16277	N.M.	37.46	0.27	7248.97	0.025	24.269	19.96	205.12	0.415	24.43
00-CAS- 3347	0.09	23179.9	N.M.	52.25	0.05	11339.5	0.025	23.498	21.24	323.74	0.555	34.81
00-CAS- 3348	0.06	17712.3	N.M.	51.54	0.36	8042.47	0.025	29.682	14.56	137.87	0.797	44.98
00-CAS- 3349	0.07	28304.4	N.M.	62.03	0.64	8406.59	0.025	27.014	30.5	367.14	0.655	26.24
00-CAS- 3350	0.06	20569.3	N.M.	48.35	0.48	7051.1	0.025	28.022	33.44	402.36	0.555	27.22
00-CAS- 3351	0.03	14291.7	N.M.	34.21	0.05	9205.84	0.025	23.27	16.42	134.08	0.268	35.25
00-CAS- 3352	0.04	17991.3	N.M.	40.06	0.05	8738.54	0.025	26.211	18	188.77	0.393	24.37

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 3312	1.181	0.511	0.253	26670.2	3.26	1.351	0.23	0.025	0.172	8.083	8.42	0.03	10187.7
00-CAS- 3313	0.784	0.377	0.193	21932.3	3.2	1.143	0.19	0.025	0.132	7.704	12.92	0.025	9750.33
00-CAS- 3315	1.803	0.967	0.425	32983	3.34	2.312	0.12	0.025	0.339	11.206	9.26	0.099	22219.4
00-CAS- 3316	1.213	0.655	0.307	32318.9	3.1	1.678	0.12	0.025	0.266	8.323	9.29	0.085	18925
00-CAS- 3318	0.747	0.412	0.231	15411.2	2.82	1.305	0.16	0.025	0.16	8.461	11.85	0.046	6808.72
00-CAS- 3319	0.889	0.386	0.234	15450.4	2.64	1.28	0.12	0.025	0.158	9.777	11.13	0.05	6208.86
00-CAS- 3320	1.041	0.51	0.252	28774.1	3.7	1.229	0.19	0.025	0.16	9.094	13.72	0.044	10374.8
00-CAS- 3322	1.386	0.568	0.287	34599.4	3.2	1.764	0.12	0.025	0.244	9.418	9.82	0.084	18003.1
00-CAS- 3324	0.798	0.358	0.205	30341.7	3.72	0.901	0.13	0.025	0.138	5.538	12.06	0.028	11293.1
00-CAS- 3325	1.078	0.559	0.269	26590.3	3.33	1.594	0.2	0.025	0.212	8.961	12.06	0.049	10306.7
00-CAS- 3326	2.519	1.33	0.526	31848.9	3.55	3.412	0.24	0.025	0.506	16.642	10.56	0.15	17427.2
00-CAS- 3327	0.619	0.288	0.103	23302	2.87	0.757	0.22	0.025	0.085	3.863	12.1	0.012	9574.79
00-CAS- 3328	1.145	0.683	0.277	21444.1	2.83	1.624	0.13	0.025	0.225	8.532	9.77	0.055	10111.4
00-CAS- 3329	1.423	0.672	0.302	30179.4	3.27	1.863	0.14	0.025	0.275	11.598	12.49	0.075	9574.55
00-CAS- 3331	0.983	0.466	0.242	21430.7	3.17	1.335	0.14	0.025	0.158	7.86	12.61	0.031	10823.1
00-CAS- 3332	2.02	1.048	0.485	34446.6	3.42	2.758	0.17	0.025	0.387	15.371	8.29	0.103	9963.31
00-CAS- 3333	1.75	0.808	0.372	31136.3	3.77	2.366	0.13	0.025	0.304	12.55	11.49	0.072	13667.2
00-CAS- 3334	1.313	0.58	0.316	35776.9	3.77	1.685	0.11	0.025	0.225	9.184	10.05	0.054	17207.1
00-CAS- 3335	1.413	0.689	0.339	31839.8	3.81	1.985	0.18	0.025	0.261	10.403	11.16	0.047	12457
00-CAS- 3336	1.774	0.766	0.358	28632	2.8	2.185	0.09	0.025	0.288	10.981	7.18	0.077	16806.3
00-CAS- 3337	1.456	0.616	0.331	31549.6	2.68	1.852	0.1	0.025	0.254	10.405	9.45	0.073	13894.5
00-CAS- 3338	1.794	0.849	0.334	27094.9	2.7	2.219	0.11	0.025	0.312	10.899	6.92	0.093	17832.3
00-CAS- 3339	2.063	0.937	0.413	33349.6	3.54	2.616	0.13	0.025	0.342	13.699	10.63	0.078	20115.1
00-CAS- 3340	1.497	0.619	0.319	24594.5	2.42	2.101	0.11	0.025	0.263	9.888	6.37	0.064	13937.2
00-CAS- 3341	1.203	0.674	0.215	26232	2.26	1.658	0.07	0.025	0.216	7.867	7.08	0.059	15770
00-CAS- 3342	2.007	1.028	0.464	34766.1	3.33	2.652	0.17	0.025	0.362	13.32	7.94	0.104	16091.4
00-CAS- 3343	1.793	0.877	0.38	33595	3.54	2.133	0.09	0.025	0.323	11.122	8.55	0.083	17861.4
00-CAS- 3344	1.697	0.862	0.382	30782.4	2.91	2.344	0.14	0.025	0.341	12.039	6.9	0.088	20684.9
00-CAS- 3345	1.179	0.597	0.265	32521.7	2.7	1.502	0.19	0.05	0.207	7.51	7.38	0.043	16605.6
00-CAS- 3347	1.707	0.891	0.353	36143.8	3.39	2.252	0.11	0.025	0.316	11.29	10.05	0.1	24347.5
00-CAS- 3348	1.867	0.777	0.373	32619.6	3.35	2.372	0.14	0.06	0.327	14.775	11.3	0.102	12549.6
00-CAS- 3349	1.188	0.579	0.226	45128.6	3.86	1.304	0.15	0.025	0.207	7.761	13.4	0.035	24471.4
00-CAS- 3350	0.966	0.543	0.252	41386.5	3.12	1.522	0.12	0.025	0.166	6.995	9.87	0.041	28356.5
00-CAS- 3351	1.468	0.662	0.318	28225.9	2.65	2.038	0.13	0.025	0.297	10.559	5.11	0.072	14612.3
00-CAS- 3352	1.334	0.691	0.3	31549.2	2.93	1.856	0.14	0.025	0.255	8.812	7.7	0.053	17077.9

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 3312	207.44	0.25	0.45	8.72	82.75	2.92	2.027	2.76	0.09	3.64	1.66	0.25	20.1
00-CAS- 3313	156.79	0.2	0.45	7.43	79.66	4.23	1.906	4.36	0.025	2.58	1.352	0.25	14.2
00-CAS- 3315	449.27	0.31	0.3	11.3	179.56	2.95	2.878	4.76	0.07	7.45	2.462	0.56	25.5
00-CAS- 3316	383.6	0.3	0.28	8.46	166.36	2.69	2.148	4.3	0.06	6.8	1.671	0.25	21.1
00-CAS- 3318	119.38	0.2	0.58	7.89	68.38	4.23	2.08	6.68	0.05	2.67	1.447	0.62	14.7
00-CAS- 3319	119.95	0.22	0.72	9.42	58.65	4.04	2.411	5.49	0.025	2.82	1.652	0.52	14
00-CAS- 3320	236.24	0.32	0.44	8.47	139.03	3.56	2.223	4.55	0.05	4.26	1.493	0.5	20.2
00-CAS- 3322	401.91	0.31	0.32	9.7	183.44	2.87	2.348	3.67	0.08	8.06	1.959	0.25	18.5
00-CAS- 3324	265.24	0.27	0.39	5.45	157.64	3.48	1.456	4.91	0.025	3.92	0.927	0.25	18.5
00-CAS- 3325	224.2	0.3	0.38	9.12	86.85	3.17	2.288	4.54	0.025	4.04	1.703	0.65	19.5
00-CAS- 3326	297.44	0.26	0.26	17.5	118.28	3.21	4.237	4.13	0.025	8.16	3.476	0.84	31.2
00-CAS- 3327	200.65	0.18	0.08	3.86	103.32	3.49	1.017	5.11	0.025	2.85	0.795	0.25	11.5
00-CAS- 3328	167.48	0.17	0.33	8.64	80.79	3.1	2.121	4.51	0.025	4.05	1.637	0.25	16.7
00-CAS- 3329	191.48	0.15	0.4	11.71	54.58	4.37	2.895	7.39	0.08	6.78	2.215	1.01	13.3
00-CAS- 3331	197.42	0.21	0.53	7.67	78.06	4.92	1.944	7.41	0.025	4.11	1.337	0.9	15.9
00-CAS- 3332	179.34	0.21	0.2	15.46	102.64	3.93	3.761	4.91	0.025	10.43	2.841	1.81	18.3
00-CAS- 3333	295.51	0.2	0.22	12.85	91.53	3.19	3.229	7.12	0.025	6.57	2.386	0.53	24.2
00-CAS- 3334	515.56	0.27	0.45	9.31	221.3	3.89	2.386	5.51	0.025	5.52	1.876	0.76	26.8
00-CAS- 3335	317.7	0.31	0.42	10.81	112.17	3.49	2.802	9.3	0.025	5.21	1.937	0.93	26.3
00-CAS- 3336	336.94	0.23	0.22	11.66	144.87	2.55	2.866	3.23	0.025	8.6	2.328	0.25	24.1
00-CAS- 3337	340.78	0.23	0.27	10.66	126.57	3.87	2.618	5.7	0.025	7.18	1.943	0.25	15.8
00-CAS- 3338	261.9	0.2	0.16	11.35	116.15	2.5	2.823	2.86	0.025	5.24	2.307	0.5	25.1
00-CAS- 3339	310.02	0.22	0.26	14.28	171.44	3.36	3.425	4.26	0.025	8.97	2.525	0.98	24.6
00-CAS- 3340	217.86	0.24	0.13	10.1	92.93	2.02	2.492	2.1	0.025	3.56	1.933	0.25	20.5
00-CAS- 3341	254.78	0.24	0.18	7.57	118.69	2.31	2.048	2.95	0.025	4.95	1.575	0.25	16.4
00-CAS- 3342	348.71	0.31	0.25	13.79	160.18	3.74	3.484	4.44	0.025	9.93	2.64	0.71	26.4
00-CAS- 3343	322.87	0.27	0.35	11.22	156.8	3.09	2.8	4.59	0.025	7.55	2.162	1.08	28.1
00-CAS- 3344	411.12	0.33	0.16	11.92	109	3.24	2.986	3.76	0.09	4.26	2.492	0.54	28.9
00-CAS- 3345	327.66	0.3	0.23	7.65	142.11	2.45	1.974	2.68	0.025	6.41	1.793	0.25	22.3
00-CAS- 3347	367.17	0.31	0.4	11.43	161.47	3.45	2.873	7.51	0.025	7.17	2.152	0.9	29.6
00-CAS- 3348	163.06	0.12	0.41	14.06	44.96	4.45	3.425	15.41	0.025	5.99	2.877	0.94	19
00-CAS- 3349	533.72	0.38	0.49	7.73	251.91	3.19	2.018	7.7	0.025	6.26	1.845	0.54	27.3
00-CAS- 3350	524.67	0.37	0.35	7.39	230.8	3	1.804	6.45	0.025	6.58	1.586	0.5	23.7
00-CAS- 3351	324.21	0.22	0.2	10.28	88.06	2.74	2.711	1.88	0.025	3.83	2.183	0.6	21.2
00-CAS- 3352	345.04	0.37	0.48	9.54	116.06	3.25	2.256	3.86	0.025	4.06	2.079	0.89	22.7

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 3312	0.025	0.182	2.71	N.M.	0.025	0.059	0.432	116.91	0.28	5.06	0.342	23.14	5.97
00-CAS- 3313	0.025	0.149	2.37	N.M.	0.06	0.042	0.354	66.54	0.08	3.87	0.308	26.41	5.23
00-CAS- 3315	0.025	0.313	2.88	N.M.	0.025	0.141	0.586	138.45	0.2	8.68	0.718	36.97	4.54
00-CAS- 3316	0.025	0.236	2.43	N.M.	0.025	0.095	0.489	138.2	0.12	5.98	0.51	34.44	4.56
00-CAS- 3318	0.025	0.175	2.49	N.M.	0.07	0.067	0.402	49.27	0.12	3.49	0.281	21.49	5.06
00-CAS- 3319	0.025	0.189	2.72	N.M.	0.06	0.057	0.411	51.99	0.07	3.83	0.349	22.66	4.57
00-CAS- 3320	0.025	0.184	3.15	N.M.	0.06	0.056	0.476	97.7	0.11	4.44	0.364	29.23	5.89
00-CAS- 3322	0.025	0.273	2.75	N.M.	0.025	0.071	0.608	158.32	0.39	6.55	0.503	33.85	4.82
00-CAS- 3324	0.025	0.125	2.24	N.M.	0.05	0.046	0.391	104.81	0.09	3.47	0.291	28.12	5.43
00-CAS- 3325	0.025	0.225	3	N.M.	0.08	0.06	0.466	89.6	1.18	5.16	0.421	25.62	6.4
00-CAS- 3326	0.025	0.493	2.94	N.M.	0.06	0.173	0.75	125.22	0.64	12.16	1.046	31.46	6.91
00-CAS- 3327	0.025	0.096	1.51	N.M.	0.05	0.023	0.267	79.43	0.25	2.88	0.24	20.58	4.4
00-CAS- 3328	0.025	0.215	1.81	N.M.	0.025	0.067	0 391	94.67	0.23	6.34	0.476	22.67	4.09
00-CAS- 3329	0.025	0.263	3.39	N.M.	0.09	0.071	0.383	76.36	0.49	7.01	0.593	26.48	3.76
00-CAS- 3331	0.025	0.15	2.2	N.M.	0.025	0.058	0.408	77.65	0.38	4.7	0.34	25.58	4
00-CAS- 3332	0.025	0.37	3.41	N.M.	0.09	0.128	0.612	88.86	0.36	10.7	0.928	25.37	6.26
00-CAS- 3333	0.025	0.323	3.47	N.M.	0.08	0.119	0.534	102.97	0.31	8.27	0.647	35.96	6.56
00-CAS- 3334	0.025	0.249	3.62	N.M.	0.07	0.074	0.572	135.53	0.29	6.25	0.511	31.63	5.16
00-CAS- 3335	0.025	0.294	3.69	N.M.	0.07	0.083	0.521	127.21	0.26	7.04	0.517	33.03	6.68
00-CAS- 3336	0.025	0.321	3.06	N.M.	0.025	0.103	0.709	126.74	0.29	7.68	0.657	31.69	4.7
00-CAS- 3337	0.025	0.266	3.07	N.M.	0.06	0.097	0.57	129.94	0.17	6.57	0.508	32.66	3.79
00-CAS- 3338	0.025	0.293	2.54	N.M.	0.025	0.099	0.508	121.38	0.11	8.33	0.716	30.43	4.03
00-CAS- 3339	0.025	0.387	3.11	N.M.	0.025	0.112	0.638	129.05	0.1	10.15	0.764	34.91	5.37
00-CAS- 3340	0.025	0.244	2.14	N.M.	0.025	0.082	0.344	117.93	0.22	7.53	0.518	26.95	3.37
00-CAS- 3341	0.025	0.219	1.72	N.M.	0.025	0.059	0.37	114.02	0.28	5.99	0.447	29.05	2.52
00-CAS- 3342	0.025	0.382	3.24	N.M.	0.06	0.143	0.932	124.12	0.26	9.17	0.843	31.37	6.16
00-CAS- 3343	0.025	0.325	2.97	N.M.	0.025	0.107	0.611	119.69	0.23	8.3	0.688	32.36	4.96
00-CAS- 3344	0.025	0.294	2.65	N.M.	0.025	0.109	0.508	153.79	0.32	8.69	0.67	33.76	4.7
00-CAS- 3345	0.025	0.198	2.15	N.M.	0.025	0.047	0.481	138.55	0.2	5.7	0.566	28.3	4.3
00-CAS- 3347	0.025	0.341	2.5	N.M.	0.05	0.102	0.509	148.58	0.15	9.51	0.82	34.87	4.53
00-CAS- 3348	0.025	0.341	3.88	N.M.	0.09	0.1	0.509	85.39	0.2	9.26	0.807	31.92	5.08
00-CAS- 3349	0.025	0.211	2.4	N.M.	0.025	0.063	0.391	171.15	0.28	5.74	0.453	33.94	5.56
00-CAS- 3350	0.025	0.185	2.2	N.M.	0.025	0.056	0.37	150.67	0.08	4.95	0.405	30.78	4.03
00-CAS- 3351	0.025	0.269	2.65	N.M.	0.025	0.065	0.497	161.71	0.21	7.99	0.575	33.2	3.66
00-CAS- 3352	0.025	0.238	2.41	N.M.	0.025	0.053	0.503	155.83	0.22	7.01	0.532	31.1	4.25

SAMPLE NUMBER	ICP-AES-FA			ICP-AES									
	Au ppb	Pd ppb	Pt ppb	Al ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm
00-CAS- 3353	0.45	2.26	1.26	14785	58	1.5	4809	6	14	85	25	24407	380
00-CAS- 3354	2.32	6.68	6.24	15122	50	1.5	6526	8	22	123	63	34871	373
00-CAS- 3355	1.39	2.56	2.33	20221	62	1.5	7465	7	18	61	43	27075	393
00-CAS- 3356	3.32	5.87	2.81	25790	84	1.5	5890	9	25	135	73	37828	360
00-CAS- 3357	1.74	2.92	1.92	36013	141	1.5	3272	8	25	76	43	36650	323
00-CAS- 3358	1.95	4.07	2.6	16364	49	1.5	5240	7	18	97	40	27780	318
00-CAS- 3359	2.06	7.28	2.51	38903	44	1.5	2890	11	23	107	81	47523	334
00-CAS- 3361	2.38	6.24	3.47	17402	41	1.5	8234	8	21	129	49	31462	377
00-CAS- 3362	2.91	7.1	4.02	21238	95	1.5	6089	10	25	175	49	41744	435
00-CAS- 3363	1.81	6.84	3.1	18730	54	1.5	4330	9	25	105	64	41379	398
00-CAS- 3364	3.24	10.57	5.58	30666	105	1.5	5628	10	26	69	106	40418	526
00-CAS- 3365	6.09	8.43	3.92	24491	66	1.5	7872	8	20	44	103	33353	510
00-CAS- 3366	2.67	3.85	2.63	18291	51	1.5	6752	6	16	93	34	27297	338
00-CAS- 3367	3.68	4.37	3.54	23490	80	1.5	4842	9	23	76	41	38636	438
00-CAS- 3368	1.77	5.19	3.18	29044	40	1.5	4350	9	21	91	49	38262	338
00-CAS- 3369	2.1	6.63	3.25	30892	71	1.5	4594	10	27	119	59	43273	400
00-CAS- 3370	7.16	45.21	8.39	17525	77	1.5	6860	9	26	220	112	40154	457
00-CAS- 3371	20.98	367.56	21.73	15952	46	1.5	6393	8	26	124	110	34991	461
00-CAS- 3372	3.99	12.15	4.63	18334	71	1.5	9560	8	16	62	79	34049	473
00-CAS- 3373	1.66	3.68	3.26	33657	125	1.5	3080	10	27	148	35	41035	408
00-CAS- 3374	1.54	4.92	2.79	31349	67	1.5	3555	9	24	107	52	38513	322
00-CAS- 3375	2.52	5.42	2.58	19026	58	1.5	6518	7	18	81	36	31113	365
00-CAS- 3451	4.05	7.63	3.61	21056	106	1.5	8452	8	19	55	90	35843	822

SAMPLE NUMBER	ICP-AES														
	Li ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	S ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
00-CAS- 3353	11	8260	253	4	952	59	323	117	4	15	927	68	17.5	6	30
00-CAS- 3354	8	14179	299	4	1451	110	410	55	5	20	1335	137	17.5	8	39
00-CAS- 3355	11	11094	215	4	1615	64	434	70	4	23	1529	91	17.5	6	33
00-CAS- 3356	14	12420	298	4	1250	138	429	80	6	22	1564	126	17.5	7	44
00-CAS- 3357	19	8814	135	4	541	123	288	115	3	18	1425	102	17.5	3	39
00-CAS- 3358	12	11526	200	4	1080	104	419	58	3	17	1266	95	17.5	5	38
00-CAS- 3359	21	8520	175	4	568	92	477	354	4	9	1361	131	17.5	5	52
00-CAS- 3361	7	16171	324	4	1922	110	754	70	3	23	1258	136	17.5	8	39
00-CAS- 3362	11	14076	372	4	1249	160	495	61	6	24	1564	158	17.5	7	48
00-CAS- 3363	12	12663	333	4	827	104	287	61	4	16	1667	185	17.5	7	50
00-CAS- 3364	13	10498	297	4	1379	73	450	102	5	30	1574	147	17.5	8	43
00-CAS- 3365	10	10427	291	4	1565	55	591	85	4	23	1633	146	17.5	9	46
00-CAS- 3366	12	10660	195	4	1282	81	468	57	4	20	1358	101	17.5	6	37
00-CAS- 3367	13	10803	323	4	927	74	460	102	3	18	1460	150	17.5	5	44
00-CAS- 3368	11	9338	185	4	1179	83	312	161	5	14	1542	154	17.5	6	39
00-CAS- 3369	16	12602	262	4	1051	115	442	127	5	18	1609	155	17.5	6	50
00-CAS- 3370	9	18187	402	4	1469	189	543	67	4	20	1538	171	17.5	7	51
00-CAS- 3371	8	14712	314	4	1441	202	531	67	3	18	1257	145	17.5	5	45
00-CAS- 3372	11	12620	259	4	1913	64	801	70	6	24	1225	111	17.5	11	40
00-CAS- 3373	19	13307	189	4	643	127	363	149	3	15	1595	127	17.5	3	48
00-CAS- 3374	14	10273	194	4	787	110	372	132	4	15	1421	128	17.5	4	42
00-CAS- 3375	14	10517	266	4	1326	76	423	67	5	19	1333	107	17.5	8	40
00-CAS- 3451	8	8229	317	4	1512	50	847	56	6	52	1707	164	17.5	11	50

SAMPLE NUMBER	ICP-MS											
	Ag ppm	Al ppm	Au ppm	Ba ppm	Be ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
00-CAS- 3353	0.23	15904.4	N.M.	61.47	0.4	5139.95	0.025	22.978	12.41	94.82	0.753	24.53
00-CAS- 3354	0.05	15881.9	N.M.	50.95	0.42	6897.78	0.025	23.885	17.74	136.72	0.453	62.65
00-CAS- 3355	0.03	22871.1	N.M.	68.89	0.17	7940.45	0.025	24.499	15.09	69.28	0.805	44.36
00-CAS- 3356	0.04	27244.3	N.M.	89.14	0.3	5733.69	0.025	42.418	22.17	140	0.903	73.7
00-CAS- 3357	0.03	37694	N.M.	148.12	0.18	3130.18	0.025	15.919	22.01	80.58	0.926	41.82
00-CAS- 3358	0.03	16966.2	N.M.	49.23	0.19	4966.91	0.025	16.952	14.95	100.02	0.742	39.3
00-CAS- 3359	0.02	36682.4	N.M.	42.91	0.22	2410.95	0.025	17.04	18.91	102.84	0.951	76.24
00-CAS- 3361	0.03	16690.1	N.M.	41.76	0.05	7328.92	0.025	48.655	17.88	126.52	0.381	48.9
00-CAS- 3362	0.02	20517.6	N.M.	93.06	0.05	5310.4	0.025	56.835	20.69	170.22	0.701	46.97
00-CAS- 3363	0.02	18465.6	N.M.	50.87	0.05	3808.96	0.025	39.281	21.24	104.47	0.665	63.22
00-CAS- 3364	0.03	27439.9	N.M.	97.16	0.05	4415.88	0.025	58.761	20.03	59.65	0.733	96.89
00-CAS- 3365	0.02	24647.7	N.M.	63.75	0.05	7248.45	0.025	44.366	16.19	45.45	0.854	103.92
00-CAS- 3366	0.01	17047.3	N.M.	47.05	0.05	5504.55	0.025	23.332	11.98	88.33	0.719	31.91
00-CAS- 3367	0.08	22394.3	N.M.	77.22	0.42	4259.8	0.025	25.614	18.64	74.07	0.754	40.44
00-CAS- 3368	0.04	27262.7	N.M.	35.84	0.57	3525.88	0.025	24.581	18.31	85.08	0.611	46.99
00-CAS- 3369	0.03	29248.4	N.M.	65.24	0.46	3586.96	0.025	35.531	22.12	112.55	0.886	56.06
00-CAS- 3370	0.04	17147.2	N.M.	73.14	0.18	5808.76	0.025	39.404	22.7	222.4	0.47	108.76
00-CAS- 3371	0.03	15067.7	N.M.	43.38	0.23	5343.1	0.025	20.288	22.62	122.5	0.605	110.37
00-CAS- 3372	0.05	16970.8	N.M.	68.71	0.13	8193.64	0.025	27.868	12.88	61.55	0.618	78.12
00-CAS- 3373	0.05	33872.2	N.M.	125.96	0.52	2714.06	0.025	15.222	25.26	158.21	1.051	36.2
00-CAS- 3374	0.03	30211.2	N.M.	64.17	0.52	2978.21	0.025	23.719	22.14	110.36	0.741	54.3
00-CAS- 3375	0.22	16646.3	N.M.	53.61	0.4	5313.86	0.025	26.027	14.56	79.93	0.755	34.4
00-CAS- 3451	0.04	18223.9	N.M.	101.37	0.22	6662.44	0.025	36.347	14.76	54.51	0.736	84.87

SAMPLE NUMBER	ICP-MS												
	Dy ppm	Er ppm	Eu ppm	Fe ppm	Ga ppm	Gd ppm	Hf ppm	Hg ppm	Ho ppm	La ppm	Li ppm	Lu ppm	Mg ppm
00-CAS- 3353	1.202	0.585	0.314	24395.1	2.75	1.898	0.08	0.06	0.193	12.251	12.63	0.075	8596.45
00-CAS- 3354	1.547	0.69	0.378	34226.6	3.06	2.059	0.12	0.025	0.248	13.273	9.83	0.07	14115.4
00-CAS- 3355	1.298	0.555	0.312	26334.2	3.96	1.947	0.24	0.025	0.229	11.128	14.12	0.065	11842.7
00-CAS- 3356	1.486	0.722	0.403	32940	4.47	2.187	0.22	0.025	0.276	11.413	15.53	0.081	12855.3
00-CAS- 3357	0.765	0.262	0.195	32184.7	6.05	1.054	0.14	0.025	0.124	8.062	20.23	0.038	9021.41
00-CAS- 3358	0.901	0.407	0.24	23902.2	3.22	1.381	0.1	0.025	0.162	7.726	14.68	0.039	11506
00-CAS- 3359	1.267	0.49	0.271	35202.9	5.33	1.45	0.17	0.06	0.213	7.643	20.14	0.053	7723.86
00-CAS- 3361	1.643	0.7	0.29	26282.8	2.97	2.166	0.08	0.025	0.304	10.054	7.36	0.053	14894.6
00-CAS- 3362	1.695	0.671	0.357	32860.3	3.79	2.424	0.24	0.025	0.305	11.383	10.67	0.053	12412.3
00-CAS- 3363	1.589	0.593	0.362	33483.8	3.88	1.693	0.21	0.025	0.25	8.622	14.09	0.084	12025.4
00-CAS- 3364	1.83	0.783	0.411	27640.3	4.59	2.145	0.23	0.025	0.312	11.358	13.49	0.085	8944.57
00-CAS- 3365	1.951	0.838	0.418	27889.4	4.25	2.581	0.23	0.025	0.355	13.529	12.52	0.09	10080.9
00-CAS- 3366	1.215	0.57	0.295	21493.5	3.31	1.619	0.11	0.025	0.213	9.906	11.62	0.054	9585.49
00-CAS- 3367	1	0.403	0.208	30594.5	4.31	1.312	0.13	0.025	0.173	7.372	14.74	0.04	9634.38
00-CAS- 3368	1.226	0.551	0.354	29608.9	4.37	1.82	0.19	0.025	0.221	9.88	13.31	0.056	7930.42
00-CAS- 3369	1.251	0.606	0.423	34097.1	5.07	1.507	0.18	0.025	0.215	8.459	16.78	0.064	10987.6
00-CAS- 3370	1.439	0.643	0.316	32245.6	3.71	2.066	0.15	0.025	0.254	10.506	10.36	0.067	16226.4
00-CAS- 3371	0.909	0.459	0.212	27850.3	3.02	1.216	0.12	0.025	0.155	6.282	11.05	0.038	12947.3
00-CAS- 3372	2.001	0.974	0.353	27011.2	3.72	2.633	0.15	0.025	0.376	14.372	13.18	0.119	11109.2
00-CAS- 3373	0.738	0.298	0.199	34504.6	6.23	0.941	0.17	0.025	0.111	6.591	23.56	0.035	12548.1
00-CAS- 3374	0.907	0.434	0.276	30548.9	4.95	1.282	0.18	0.025	0.161	7.478	18.11	0.035	9461.23
00-CAS- 3375	1.528	0.741	0.372	24677.5	3.64	2.079	0.14	0.025	0.32	11.668	14.88	0.077	8428.14
00-CAS- 3451	2.173	1.126	0.502	27933.4	4.29	2.769	0.16	0.025	0.377	14.232	7.96	0.118	6660.09

SAMPLE NUMBER	ICP-MS												
	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Sn ppm	Sr ppm
00-CAS- 3353	263	0.28	0.98	10.14	57.79	4.25	2.853	12.77	0.12	4.35	2.034	0.52	14.8
00-CAS- 3354	320.22	0.25	0.28	11.51	107.8	2.37	2.963	3.81	0.025	5.77	2.205	0.25	19.4
00-CAS- 3355	231.82	0.31	0.63	10.66	64.48	4.07	2.631	7.3	0.025	4.39	2.149	0.94	24.1
00-CAS- 3356	284.62	0.45	0.56	11	141.11	4.35	2.831	4.37	0.025	6.46	2.251	0.82	22.6
00-CAS- 3357	130.79	0.49	1.09	7.02	121.58	4.65	1.9	4.48	0.025	3.3	1.306	0.86	18.1
00-CAS- 3358	184.91	0.28	0.4	7.75	102.76	3.44	1.899	5.55	0.025	3.14	1.462	0.56	16.9
00-CAS- 3359	143.71	1.05	1.53	7.51	84.14	6.69	1.858	4.56	0.12	4.42	1.456	0.96	9
00-CAS- 3361	288.83	0.29	0.46	10.35	109.7	2.54	2.652	2.99	0.025	3.02	2.118	0.53	24.1
00-CAS- 3362	319.96	0.35	0.34	10.8	152.53	3.58	2.959	5.49	0.025	6.06	2.486	0.52	24.3
00-CAS- 3363	297.36	0.42	0.48	8.86	98	3.04	2.264	3.71	0.025	4.53	1.801	0.57	15.3
00-CAS- 3364	225.26	0.3	0.8	10.66	61.73	3.74	2.948	4.71	0.025	4.83	2.443	0.79	27.8
00-CAS- 3365	255.6	0.29	0.54	14.04	50.75	3.99	3.562	5.02	0.025	4.23	2.778	0.93	22.4
00-CAS- 3366	161.97	0.26	0.42	9.36	72.29	3.92	2.545	5.07	0.025	3.65	1.658	0.65	19.2
00-CAS- 3367	277.82	0.53	0.91	6.92	68.98	3.26	1.868	7.59	0.06	3.11	1.395	0.25	17.9
00-CAS- 3368	153.47	0.7	0.97	9.64	75.88	3.77	2.558	3.28	0.05	4.75	1.903	0.66	13.1
00-CAS- 3369	220.97	0.58	0.98	9	107.13	4.7	2.222	5.49	0.025	5.18	1.728	0.66	16.4
00-CAS- 3370	347.02	0.35	0.36	10.1	183.63	2.95	2.692	3.28	0.025	4.16	2.077	0.25	20
00-CAS- 3371	268.22	0.22	0.41	6.81	201.77	3.11	1.655	6.63	0.025	3.42	1.329	0.25	18.1
00-CAS- 3372	220.22	0.15	0.33	14.2	59.31	3.56	3.827	5.4	0.025	6.36	2.917	1.44	23.6
00-CAS- 3373	176.48	0.7	1.1	6.27	131.46	4.16	1.683	5.2	0.06	3.25	1.083	0.68	15.5
00-CAS- 3374	174.58	0.47	1.06	7.14	111.92	4.12	1.908	3.78	0.025	4.23	1.373	0.52	15.9
00-CAS- 3375	219.62	0.23	0.58	11.18	70.06	4.57	2.936	5.32	0.12	5.6	2.138	0.72	18.6
00-CAS- 3451	265.13	0.21	0.26	15.24	44.65	3.2	3.879	6.56	0.025	5.64	3.14	0.25	49.5

SAMPLE NUMBER	ICP-MS												
	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
00-CAS- 3353	0.025	0.23	2.81	N.M.	0.06	0.068	0.546	86.34	0.29	6.26	0.41	23.81	2.2
00-CAS- 3354	0.025	0.255	2.46	N.M.	0.05	0.104	0.572	165.46	0.16	7.81	0.619	31.04	4.11
00-CAS- 3355	0.025	0.246	2.88	N.M.	0.05	0.072	0.577	114.88	0.17	6.4	0.594	27.72	6.3
00-CAS- 3356	0.025	0.272	3.53	N.M.	0.07	0.093	0.636	135.9	0.16	7.99	0.655	36.89	6.21
00-CAS- 3357	0.025	0.137	2.48	N.M.	0.08	0.024	0.455	117.89	0.11	3.5	0.321	31.12	5.58
00-CAS- 3358	0.025	0.169	2.04	N.M.	0.05	0.039	0.397	113.74	0.07	4.8	0.387	30.68	4.39
00-CAS- 3359	0.025	0.186	3.26	N.M.	0.06	0.057	0.649	129.71	0.22	4.9	0.387	43.84	5.83
00-CAS- 3361	0.025	0.302	2.27	N.M.	0.025	0.083	0.495	150.86	0.17	7.69	0.491	30.86	4.62
00-CAS- 3362	0.025	0.316	3.32	N.M.	0.05	0.084	0.862	168.53	0.6	7.63	0.582	38.92	6.17
00-CAS- 3363	0.025	0.286	2.45	N.M.	0.025	0.072	0.447	208.46	0.19	6.7	0.635	42.42	5.51
00-CAS- 3364	0.025	0.298	4.01	N.M.	0.08	0.106	0.646	136.53	0.15	7.99	0.66	33.19	8.37
00-CAS- 3365	0.025	0.358	3.2	N.M.	0.07	0.107	0.59	168.34	0.49	9.39	0.749	40.61	7.62
00-CAS- 3366	0.025	0.196	2.61	N.M.	0.05	0.051	0.462	112.8	0.08	6	0.515	29.22	4.34
00-CAS- 3367	0.025	0.177	2.51	N.M.	0.06	0.053	0.395	152.98	1.54	4.42	0.313	36.21	5.47
00-CAS- 3368	0.025	0.225	3.08	N.M.	0.05	0.057	0.54	143.7	0.56	5.73	0.422	31.71	6.36
00-CAS- 3369	0.025	0.214	3	N.M.	0.06	0.06	0.493	148.26	0.3	5.94	0.436	40.44	8.04
00-CAS- 3370	0.025	0.286	2.86	N.M.	0.06	0.088	0.56	179.27	0.35	7.34	0.543	40.83	6.4
00-CAS- 3371	0.025	0.205	1.54	N.M.	0.025	0.047	0.276	147.97	0.16	4.84	0.386	37.17	4.46
00-CAS- 3372	0.025	0.355	3.48	N.M.	0.08	0.13	0.495	107.97	0.17	10.57	0.841	32.62	7.27
00-CAS- 3373	0.025	0.125	2.32	N.M.	0.05	0.021	0.373	135.3	0.25	3.2	0.294	41.68	7.3
00-CAS- 3374	0.025	0.17	3.04	N.M.	0.07	0.049	0.468	125.92	0.25	4.36	0.35	36.16	7.83
00-CAS- 3375	0.025	0.243	3.12	N.M.	0.06	0.082	0.562	98.82	0.25	7.75	0.617	32.22	5.36
00-CAS- 3451	0.025	0.399	3.63	N.M.	0.08	0.119	0.607	152.81	0.26	10.61	0.803	42.34	7.74

SAMPLE NUMBER	Ag ppb	Al ppb	As ppb	Au ppb	B ppb	Ba ppb	Be ppb	Bi ppb	Ca %	Cd ppb	Ce ppb	Co ppb	Cr ppb	Cs ppb	Cu ppb	Dy ppb	Er ppb
00-CAS- 5113	0.92	5040	35	1	313	63	0.153	0.6	34.8	5.82	14.5	19.8	7	2.74	325	0.686	0.357
00-CAS- 5114	0.75	4050	44.5	1	215	87.6	0.148	0.67	40.7	6.83	15.1	29.7	11.3	1.8	230	0.732	0.392
00-CAS- 5115	0.53	5270	42.4	3	202	94	0.13	0.56	38.1	7.74	14.6	45.1	6.5	5.03	232	0.622	0.323
00-CAS- 5116	0.58	4650	35.9	2	336	74.8	0.147	0.42	34	3.31	13.5	50.1	5.4	4.1	254	0.636	0.331
00-CAS- 5117	2.23	7870	34.6	7	210	676	0.242	1.04	30.8	8.75	21.9	36.9	15.9	3.69	363	1.12	0.586
00-CAS- 5118	0.51	3230	37.9	1	235	143	0.073	0.33	39.4	5.11	10.5	19.6	6.5	1.4	222	0.489	0.25
00-CAS- 5119	1.15	7760	23.2	2	210	52.4	0.195	0.58	29	4.81	18.3	31.9	12.4	3.36	334	0.917	0.483
00-CAS- 5120	1.12	3340	27.9	1	199	186	0.092	0.27	38.1	10.8	10.2	19.8	5.1	1.2	227	0.459	0.231
00-CAS- 5121	1.07	3850	26.7	1	194	54.9	0.141	0.51	35	10.5	13.2	28.6	5.3	3.24	235	0.664	0.347
00-CAS- 5122	0.42	2990	21.8	1	173	40.4	0.091	0.22	35.1	9.49	8.83	30.6	5.2	2.18	150	0.435	0.218
00-CAS- 5123	0.42	4020	24	1	162	65.8	0.087	0.28	34.4	7.18	8.74	34.7	9.8	2.02	142	0.424	0.214
00-CAS- 5124	1.04	6670	25.7	1	177	69.1	0.105	0.44	30.3	11.9	12.8	63	20.2	2.75	264	0.675	0.333
00-CAS- 5151	0.49	3800	27.1	2	195	101	0.103	0.27	33.7	6.72	14.1	10.2	2.6	6.15	205	0.698	0.367
00-CAS- 5153	0.14	1290	29.2	1	110	151	0.057	0.1	39	1.01	6.06	3.8	1.5	0.641	61.8	0.271	0.142
00-CAS- 5154	0.16	1320	29.1	1	178	301	0.049	0.13	32.9	2.84	6.36	4.39	1.5	1.04	90.8	0.293	0.153
00-CAS- 5156	0.65	5520	20.1	1	274	52.7	0.099	0.45	34.3	10.5	13.9	22.5	11.4	4.45	123	0.704	0.377
00-CAS- 5160	0.37	3220	20.2	1	338	43.6	0.045	0.25	35.3	4.55	8.16	11.3	7.6	2.3[illegible]	118	0.443	0.23
00-CAS- 5162	0.31	3760	18.1	1	211	172	0.065	0.31	35.3	8.88	11.2	9.28	7	2.82	114	0.554	0.294
00-CAS- 5401	0.22	7000	12.7	1	127	107	0.079	0.18	26.9	4.1	12.6	7.19	11.5	2.21	46.6	0.525	0.279
00-CAS- 5402	0.51	9400	10.6	2	137	60.6	0.166	0.34	20.6	2.88	22.5	7.85	10.4	3.06	82.2	1.13	0.554
00-CAS- 5403	0.27	5410	12.3	1	200	90.7	0.134	0.19	30.7	7.17	14.4	10.1	7.1	1.68	80.4	0.675	0.353
00-CAS- 5404	0.56	5180	17.7	1	185	98.1	0.081	0.25	33.3	6.49	13.3	7.35	9.4	2.33	95.7	0.576	0.309
00-CAS- 5405	0.34	4250	15.6	1	133	248	0.075	0.23	29.7	6.16	12.9	8.93	7.1	1.48	63.3	0.559	0.288
00-CAS- 5406	0.21	3830	13.7	1	150	103	0.091	0.15	31.8	1.54	7.25	4.93	3.6	4.39	62.7	0.313	0.167

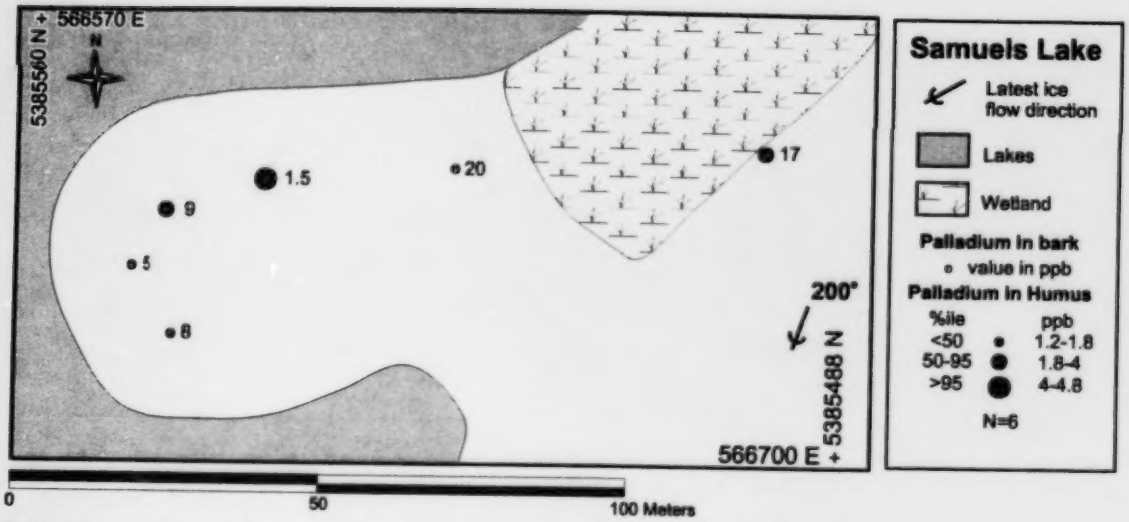
SAMPLE NUMBER	Eu ppb	Fe %	Ga ppb	Gd ppb	Ge ppb	Hf ppb	Ho ppb	In ppb	K %	La ppb	Li ppb	Lu ppb	Mg %	Mn ppb	Mo ppb
00-CAS- 5113	0.226	0.867	2.91	0.986	0.412	0.007	0.13	42.4	5.13	6.39	35.4	0.04	1.88	17100	1.21
00-CAS- 5114	0.233	0.921	2.8	1.04	0.369	0.015	0.132	42	3.72	6.44	21.7	0.042	1.12	20300	1.42
00-CAS- 5115	0.209	0.842	3.23	0.913	0.419	0.018	0.113	54	3.28	6.51	6.3	0.038	1.38	20400	1.26
00-CAS- 5116	0.211	0.801	3.35	0.905	0.297	0.011	0.117	38.3	5.3	5.47	12.4	0.039	1.98	34100	1.23
00-CAS- 5117	0.424	1.82	4.11	1.54	0.509	0.013	0.206	80.3	4	9.45	8.5	0.072	2.02	15900	2.11
00-CAS- 5118	0.165	0.692	1.9	0.684	0.269	0.006	0.088	25	2.34	4.53	18.6	0.027	1.71	13800	0.765
00-CAS- 5119	0.305	1.48	3.6	1.25	0.221	0.007	0.166	42.3	3.96	7.6	20.4	0.054	1.8	9390	1.53
00-CAS- 5120	0.159	0.663	1.91	0.667	0.154	0.006	0.081	23	2.02	4.35	6.5	0.028	1.1	18900	0.739
00-CAS- 5121	0.211	0.743	2.3	0.909	0.383	0.005	0.123	45.1	3.8	5.77	11.4	0.041	1.29	17700	1.29
00-CAS- 5122	0.135	0.63	1.7	0.594	0.155	0.004	0.077	19	2.57	3.66	5.2	0.025	1.11	17300	0.645
00-CAS- 5123	0.139	0.935	1.54	0.599	0.164	0.006	0.075	24.2	2.46	3.59	14.9	0.024	1.4	15800	0.658
00-CAS- 5124	0.228	1.73	2.55	0.9	0.241	0.006	0.118	40	2.58	5.6	13.1	0.04	2.05	17800	0.889
00-CAS- 5151	0.228	0.714	1.7	0.996	0.138	0.007	0.132	26.5	2.43	6.35	12.3	0.041	0.737	9440	0.914
00-CAS- 5153	0.096	0.29	0.589	0.366	0.082	0.043	0.047	8.16	0.689	2.35	4.1	0.017	0.472	3810	0.438
00-CAS- 5154	0.119	0.292	0.596	0.39	0.092	0.053	0.054	8.73	0.781	2.39	2.7	0.02	0.689	4420	0.547
00-CAS- 5156	0.212	0.867	2.93	0.94	0.304	0.006	0.13	30.4	2.96	5.98	5.2	0.043	1.11	17000	1.27
00-CAS- 5160	0.132	0.559	1.56	0.556	0.185	0.008	0.08	14.2	3.26	3.19	3.3	0.026	1.26	9260	0.73
00-CAS- 5162	0.183	0.649	2.04	0.748	0.271	0.009	0.102	21.8	1.71	4.75	4.1	0.033	0.861	15200	0.911
00-CAS- 5401	0.18	1.01	3.09	0.731	0.091	0.014	0.098	15.2	0.812	5.65	2.6	0.029	0.674	3600	0.791
00-CAS- 5402	0.348	1.54	3.71	1.48	0.088	0.017	0.202	25.9	1.08	10.6	3.3	0.058	0.755	2090	0.988
00-CAS- 5403	0.214	1.04	2.01	0.919	0.128	0.023	0.124	14.5	0.93	6.82	2.9	0.039	0.926	3860	0.857
00-CAS- 5404	0.195	0.856	2.03	0.815	0.126	0.015	0.105	16.2	1.3	6.07	3.3	0.033	0.78	4150	0.769
00-CAS- 5405	0.204	0.81	1.78	0.736	0.183	0.097	0.104	15.5	0.967	5.9	1.5	0.032	0.656	6440	0.739
00-CAS- 5406	0.107	0.474	1.09	0.418	0.121	0.014	0.059	9.75	2.34	3.13	1.4	0.018	0.747	1450	0.4

SAMPLE NUMBER	Na %	Nb ppb	Nd ppb	Ni ppb	Pb ppb	Pd ppb	Pr ppb	Pt ppb	Rb ppb	Re ppt	Sb ppb	Sc ppb	Se ppb	Si ppb	Sm ppb	Sn ppb	Sr ppb
00-CAS- 5113	0.15	0.385	5.72	157	141	17	1.51	5	275	10700	1.2	2.5	81.1	1910	1.08	2	695
00-CAS- 5114	0.09	0.445	5.74	122	134	22	1.48	5	166	4190	1.22	1.9	108	923	1.14	2	561
00-CAS- 5115	0.09	0.367	5.48	89.7	169	11	1.51	16	247	2310	1.53	2.2	106	1010	1.03	4	557
00-CAS- 5116	0.09	0.341	5.27	149	133	24	1.4	6	315	4150	0.985	2.2	87.2	1930	1.01	4	662
00-CAS- 5117	0.07	0.478	9.44	122	274	29	2.49	43	178	3190	2.37	3.4	86.3	1520	1.8	103	359
00-CAS- 5118	0.07	0.266	3.94	48.2	84.3	49	1.06	7	105	2480	0.744	1.4	105	1030	0.774	1	391
00-CAS- 5119	0.11	0.706	8.04	117	145	25	2.13	17	344	7480	1.35	3.2	50.8	1840	1.5	2	427
00-CAS- 5120	0.06	0.372	3.67	67.2	68.8	4	1.01	13	121	2410	0.717	1.5	72.2	1280	0.716	0.5	383
00-CAS- 5121	0.09	0.371	5.32	96.8	144	9	1.38	6	285	4720	1.35	1.5	63.4	960	1.01	1	535
00-CAS- 5122	0.07	0.279	3.31	83.9	54.2	13	0.866	9	176	4740	0.527	1.1	52.8	855	0.658	8	451
00-CAS- 5123	0.08	0.308	3.29	92.6	61.5	32	0.859	54	164	3350	0.595	1.2	59.3	723	0.649	0.5	441
00-CAS- 5124	0.08	0.319	5.32	149	91.3	44	1.38	99	146	5040	0.714	2.1	61.8	875	1.04	1	466
00-CAS- 5151	0.08	0.324	5.5	40.5	79.2	6	1.42	2	182	3480	0.796	1.4	74.6	1140	1.07	1	885
00-CAS- 5153	0.05	0.229	1.94	13.2	30.2	18	0.528	1	28.4	1230	0.389	0.5	91.4	453	0.387	0.5	562
00-CAS- 5154	0.05	0.223	2.07	24.2	39.6	24	0.543	1	28.1	1780	0.448	0.5	84.6	565	0.417	10	1490
00-CAS- 5156	0.09	0.268	5.69	58.9	94.2	4	1.51	2	140	1900	1.41	1.9	63.6	1310	1.05	1	1320
00-CAS- 5160	0.1	0.253	3.14	39	38.3	8	0.835	4	195	5650	0.65	1.1	63.1	904	0.599	0.5	1720
00-CAS- 5162	0.07	0.282	4.31	38.7	73.5	7	1.17	2	129	1260	0.987	1.3	64.9	1170	0.805	1	1300
00-CAS- 5401	0.06	0.347	4.59	22.5	37	9	1.22	1	37	715	0.525	1.7	43.2	766	0.807	0.5	1020
00-CAS- 5402	0.05	0.414	9.06	19.5	71.8	5	2.47	2	51.8	927	0.862	2.9	26.2	1030	1.68	9	978
00-CAS- 5403	0.05	0.354	5.76	25.6	46.5	8	1.52	1	36.3	410	0.688	1.4	40.5	756	1	0.5	958
00-CAS- 5404	0.06	0.312	5.02	27.4	53	1.5	1.4	4	51.8	455	0.764	1.5	58.6	920	0.895	0.5	999
00-CAS- 5405	0.05	0.386	4.68	23	61	20	1.28	3	39.6	437	0.883	1.1	52.4	527	0.841	0.5	974
00-CAS- 5406	0.05	0.224	2.56	10	31.9	17	0.704	1	102	450	0.468	0.9	47	949	0.446	0.5	1140

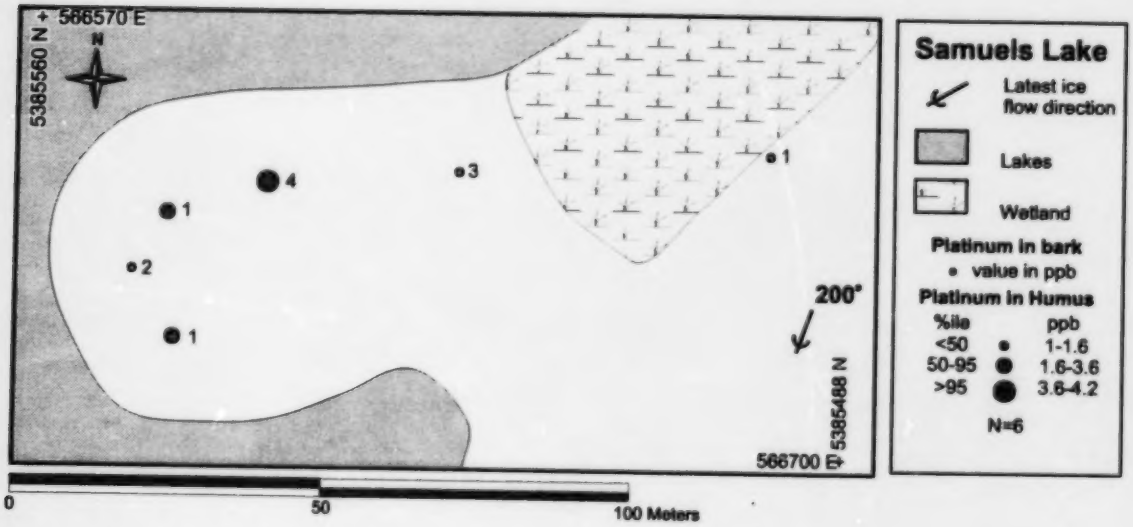
SAMPLE NUMBER	Ta ppb	Tb ppb	Te ppb	Th ppb	Ti ppb	Tl ppb	Tm ppb	U ppb	V ppb	W ppb	Y ppb	Yb ppb	Zn ppb	Zr ppb
00-CAS- 5113	0.008	0.14	0.125	0.703	210	0.161	0.047	0.468	13.1	1.9	3.64	0.292	2220	1.55
00-CAS- 5114	0.003	0.147	0.129	0.822	183	0.664	0.05	0.75	12.7	0.2	3.9	0.301	1870	2.25
00-CAS- 5115	0.003	0.124	0.133	0.67	199	0.646	0.042	0.478	12.8	0.3	3.33	0.259	1530	1.16
00-CAS- 5116	0.008	0.128	0.134	0.515	178	0.825	0.043	0.396	11.1	0.5	3.38	0.275	1950	1.84
00-CAS- 5117	0.006	0.211	0.082	1.03	424	0.711	0.078	0.867	18.1	0.2	5.72	0.488	1900	1.4
00-CAS- 5118	0.002	0.095	0.077	0.593	177	0.431	0.03	0.285	8.6	0.05	2.68	0.19	2050	0.74
00-CAS- 5119	0.008	0.181	0.078	0.807	419	0.43	0.063	0.625	15.9	0.2	4.72	0.395	1460	1.23
00-CAS- 5120	0.005	0.093	0.072	0.471	173	0.449	0.03	0.284	7.6	1.1	2.5	0.196	1710	0.875
00-CAS- 5121	0.004	0.129	0.09	0.405	182	0.317	0.044	0.442	10.3	0.1	3.62	0.28	1470	0.575
00-CAS- 5122	0.002	0.085	0.098	0.438	.164	0.203	0.027	0.25	6.2	0.05	2.3	0.17	1320	0.507
00-CAS- 5123	0.003	0.082	0.09	0.42	259	0.411	0.028	0.242	6.5	0.05	2.26	0.174	1390	0.738
00-CAS- 5124	0.004	0.13	0.1	0.523	448	0.736	0.045	0.392	10.8	0.05	3.41	0.281	1330	0.685
00-CAS- 5151	0.005	0.14	0.098	1.03	121	0.425	0.046	0.404	8.6	0.1	3.77	0.295	1580	0.648
00-CAS- 5153	0.001	0.053	0.082	0.317	40	0.095	0.019	0.159	3.3	0.05	1.5	0.12	996	2.27
00-CAS- 5154	0.001	0.056	0.229	0.307	40	0.326	0.02	0.162	3.1	0.05	1.52	0.123	1880	2.26
00-CAS- 5156	0.004	0.137	0.191	0.753	169	0.419	0.047	0.429	21.9	0.05	3.57	0.28	1320	0.419
00-CAS- 5160	0.003	0.083	0.231	0.484	111	0.126	0.032	0.223	12.3	0.05	2.2	0.173	1250	0.86
00-CAS- 5162	0.004	0.104	0.189	0.738	122	0.209	0.038	0.264	14.8	0.05	2.95	0.22	1610	0.849
00-CAS- 5401	0.003	0.102	0.083	1.12	322	0.315	0.034	0.29	24.3	0.05	2.69	0.218	716	1.32
00-CAS- 5402	0.004	0.218	0.109	1.98	250	0.275	0.071	0.69	27.4	0.05	5.42	0.416	588	1.31
00-CAS- 5403	0.003	0.131	0.098	1.13	170	0.297	0.046	0.341	15.6	0.2	3.4	0.262	656	1.96
00-CAS- 5404	0.004	0.116	0.12	1.04	153	0.294	0.041	0.306	15.7	0.05	2.9	0.237	833	1.11
00-CAS- 5405	0.001	0.114	0.12	1.11	127	0.357	0.038	0.306	13	0.05	2.87	0.216	1160	3.78
00-CAS- 5406	0.003	0.06	0.189	0.625	87	0.235	0.021	0.192	7.8	0.05	1.56	0.121	1150	1.77

APPENDIX D

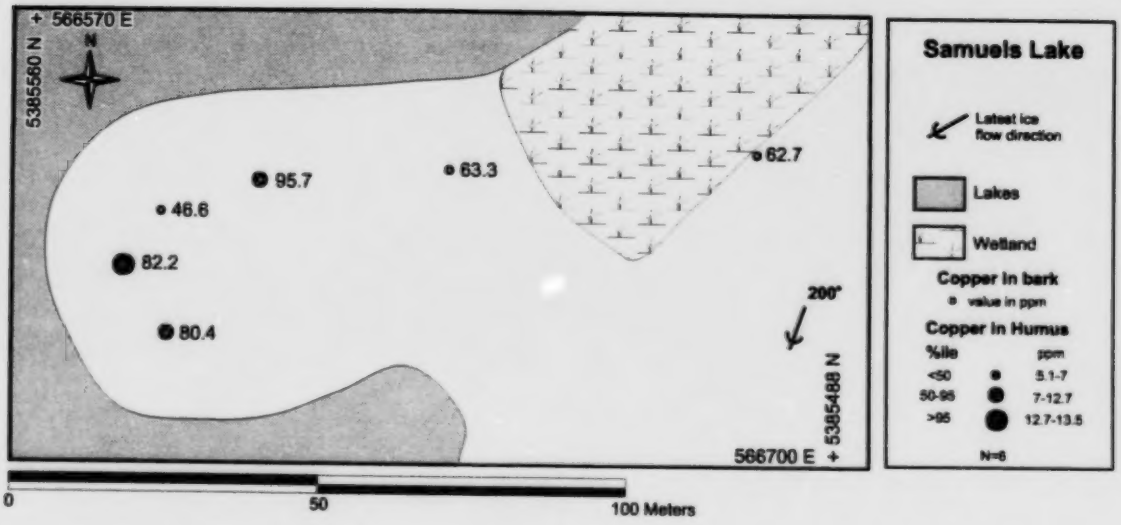
Samuels Lake Geochemical Plots



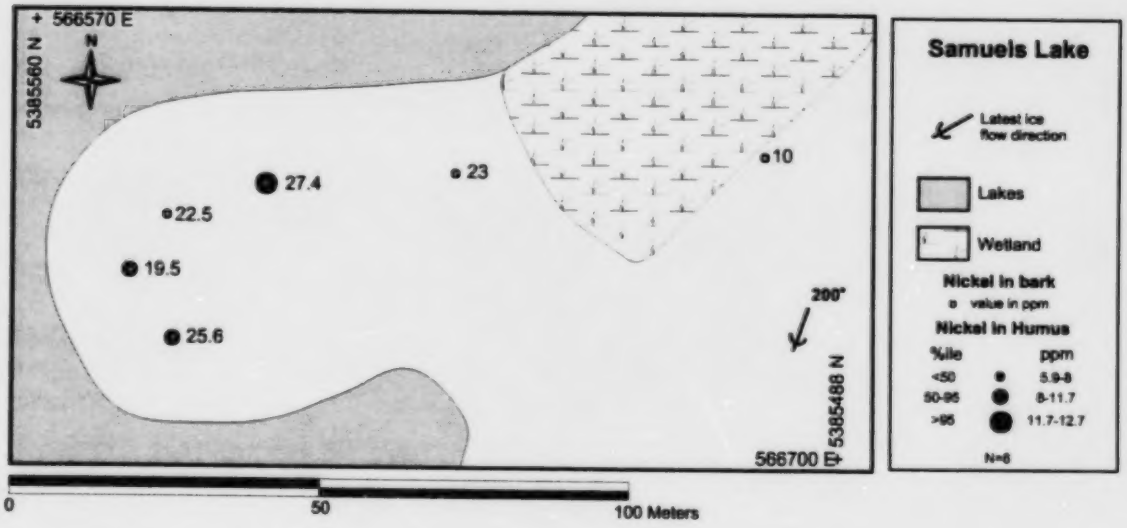
Palladium in the <177μm fraction of humus and palladium in outer bark of black spruce trees.



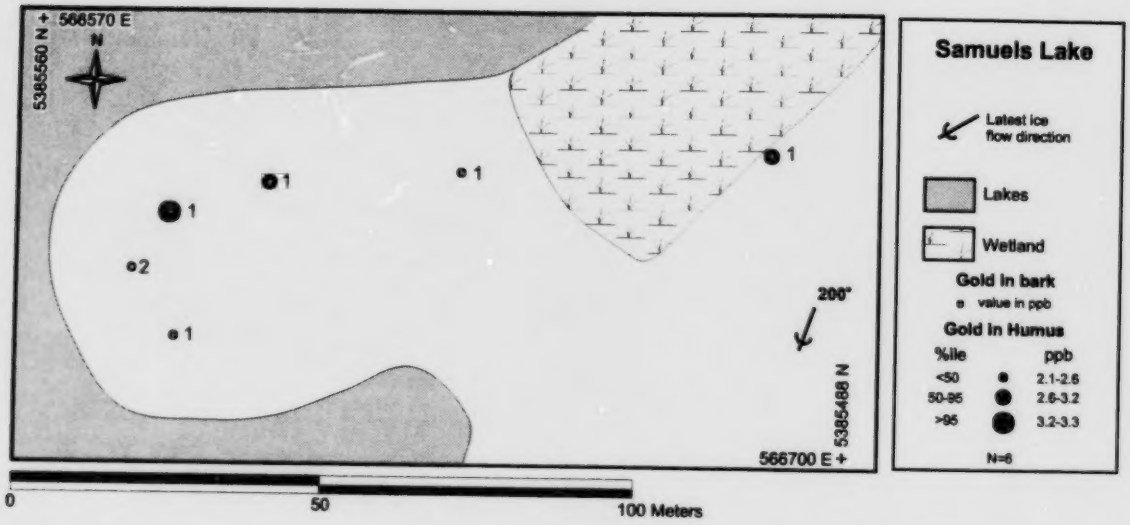
Platinum in the <177μm fraction of humus and platinum in outer bark of black spruce trees.



Copper in the <177μm fraction of humus and copper in outer bark of black spruce trees.



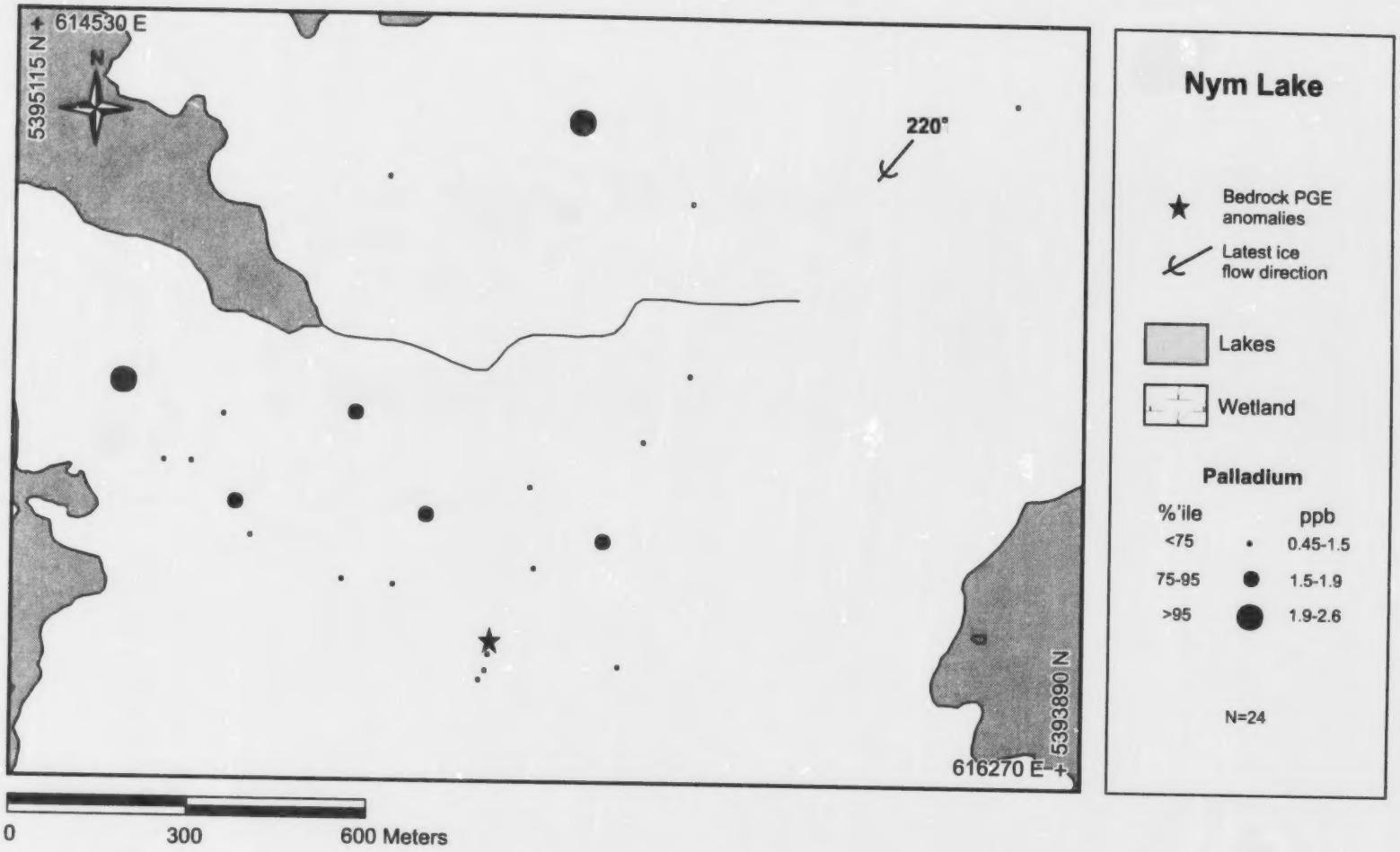
Nickel in the <177μm fraction of humus and nickel in outer bark of black spruce trees.



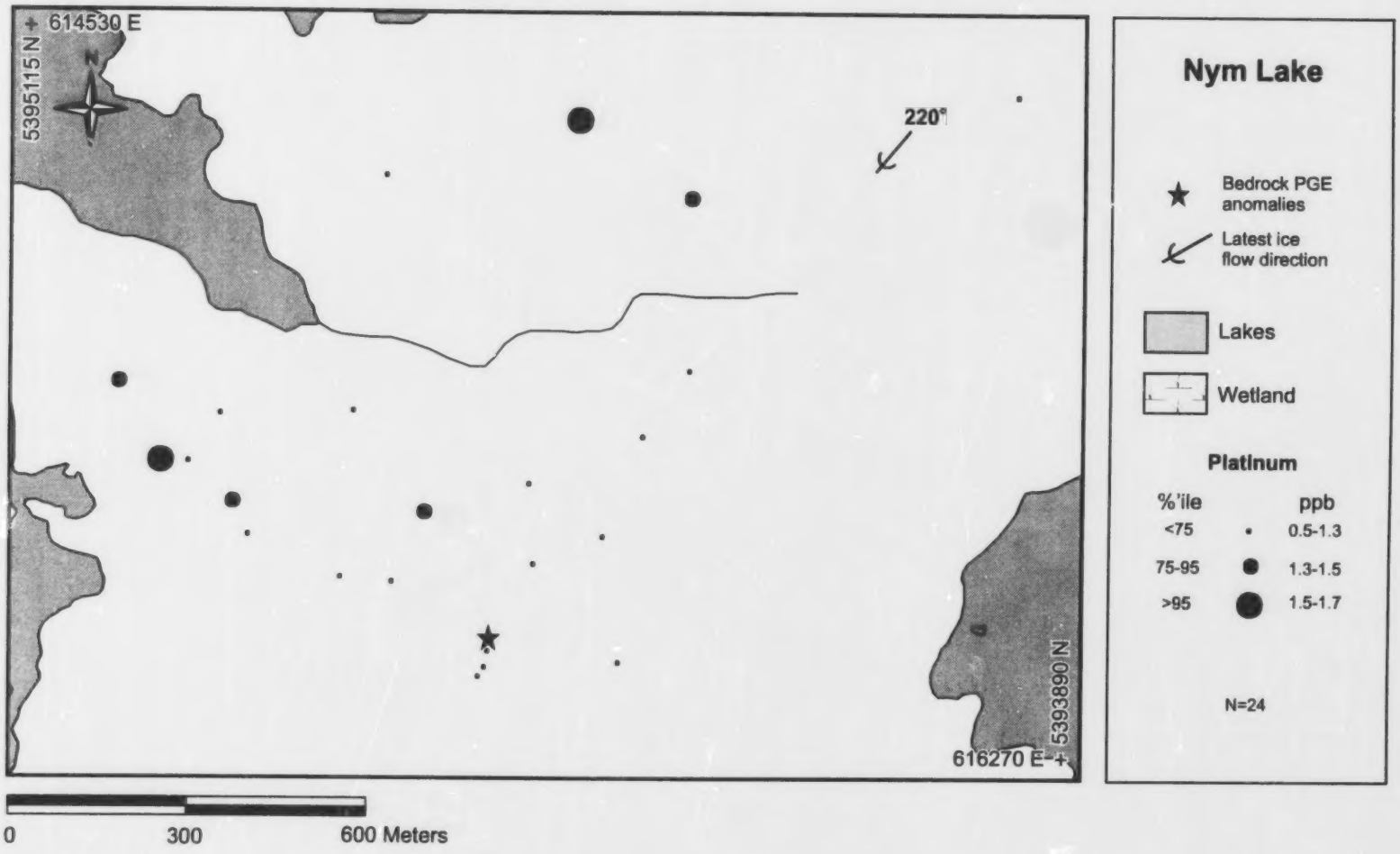
Gold in the <177μm fraction of humus and gold in outer bark of black spruce trees.

APPENDIX E

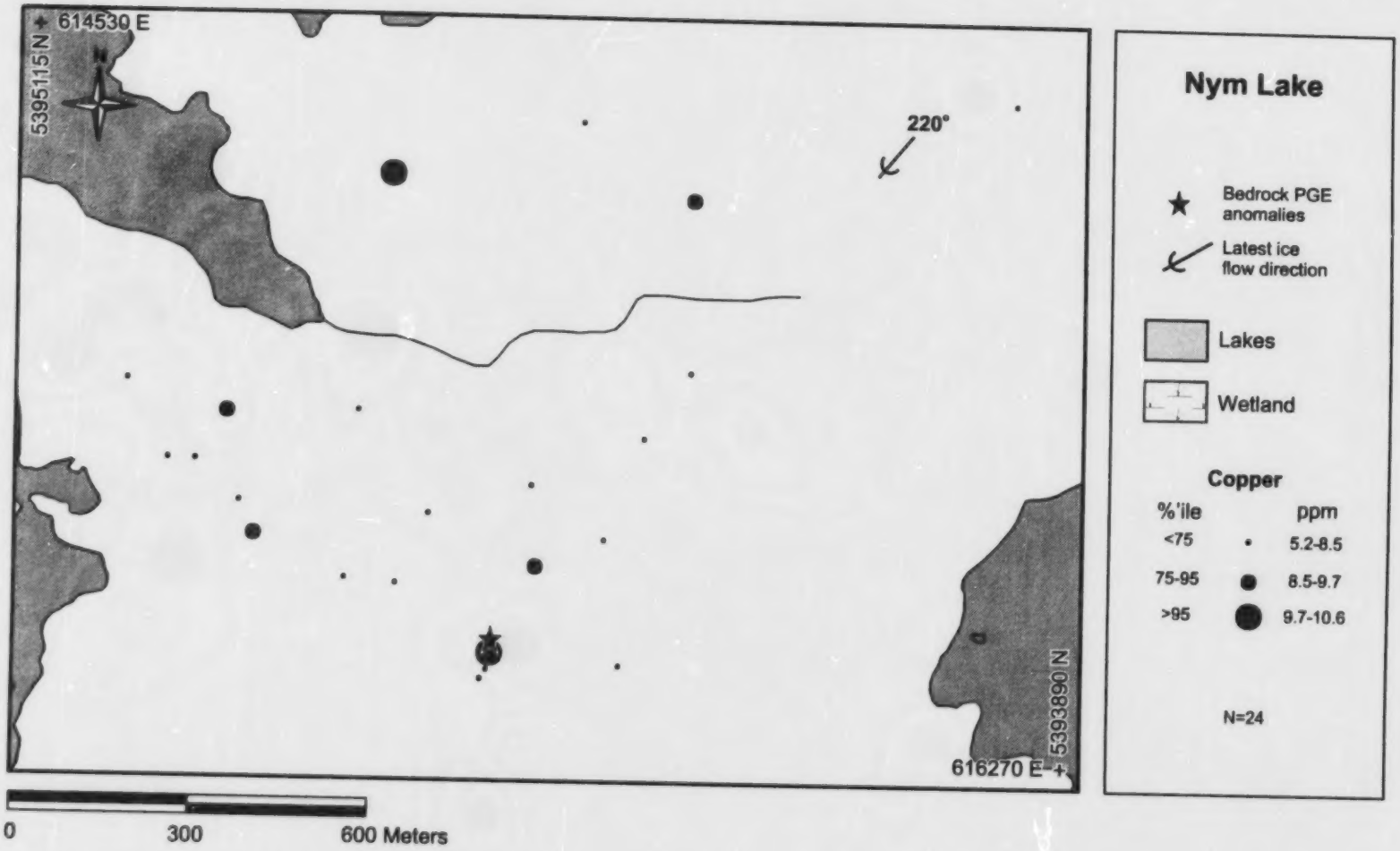
Nym Lake Geochemical Plots



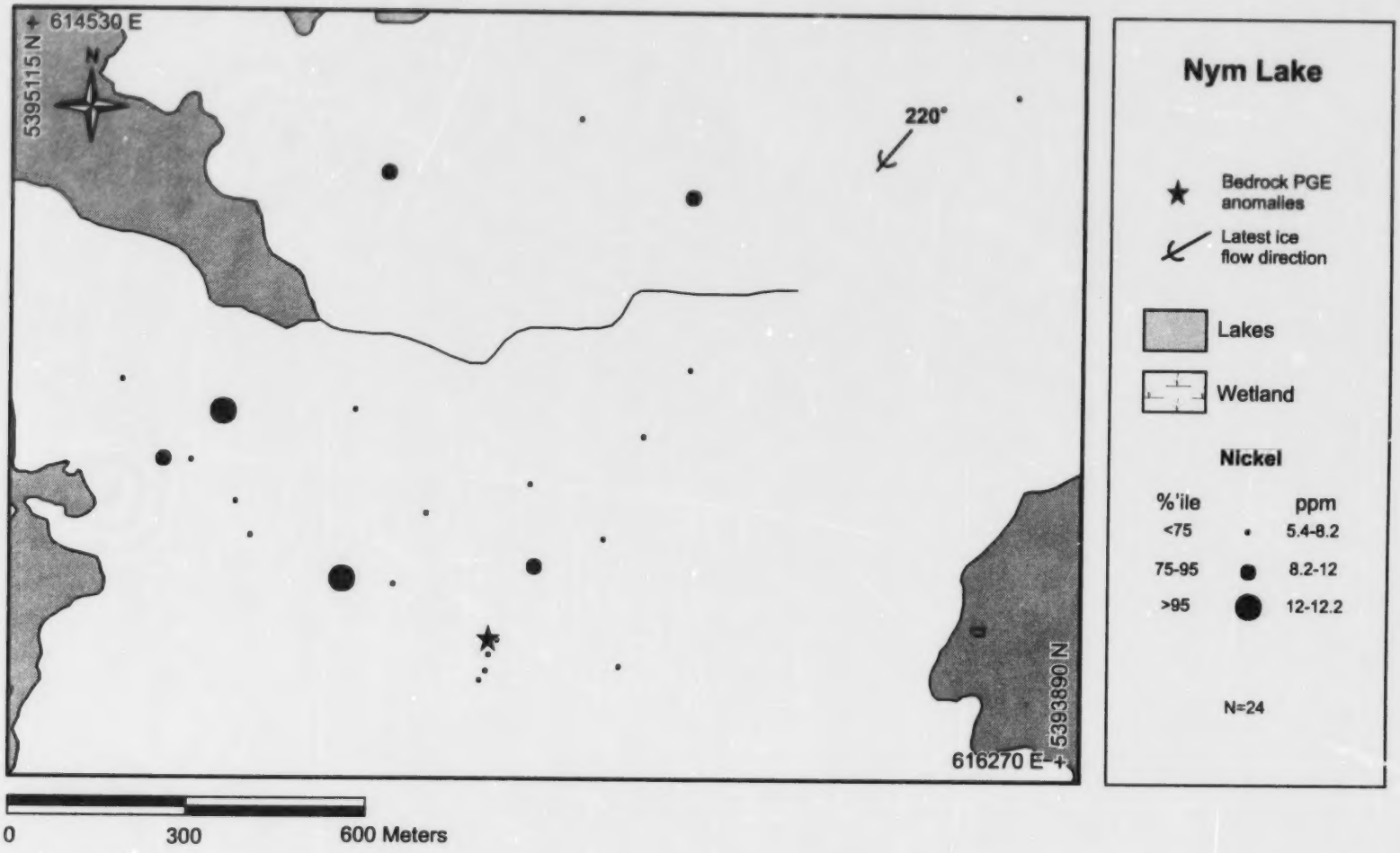
Palladium in the <177μm fraction of humus.



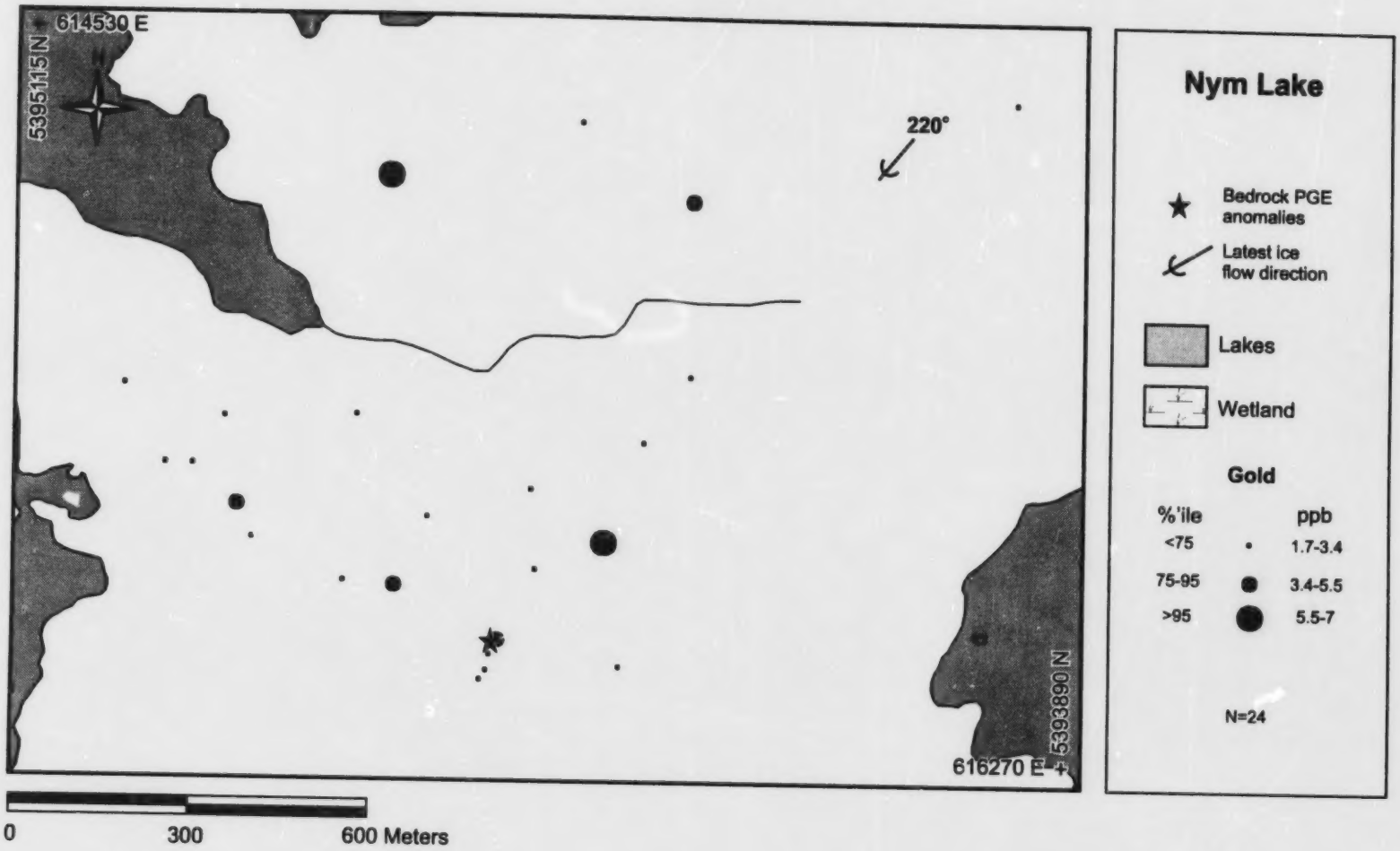
Platinum in the <177μm fraction of humus.



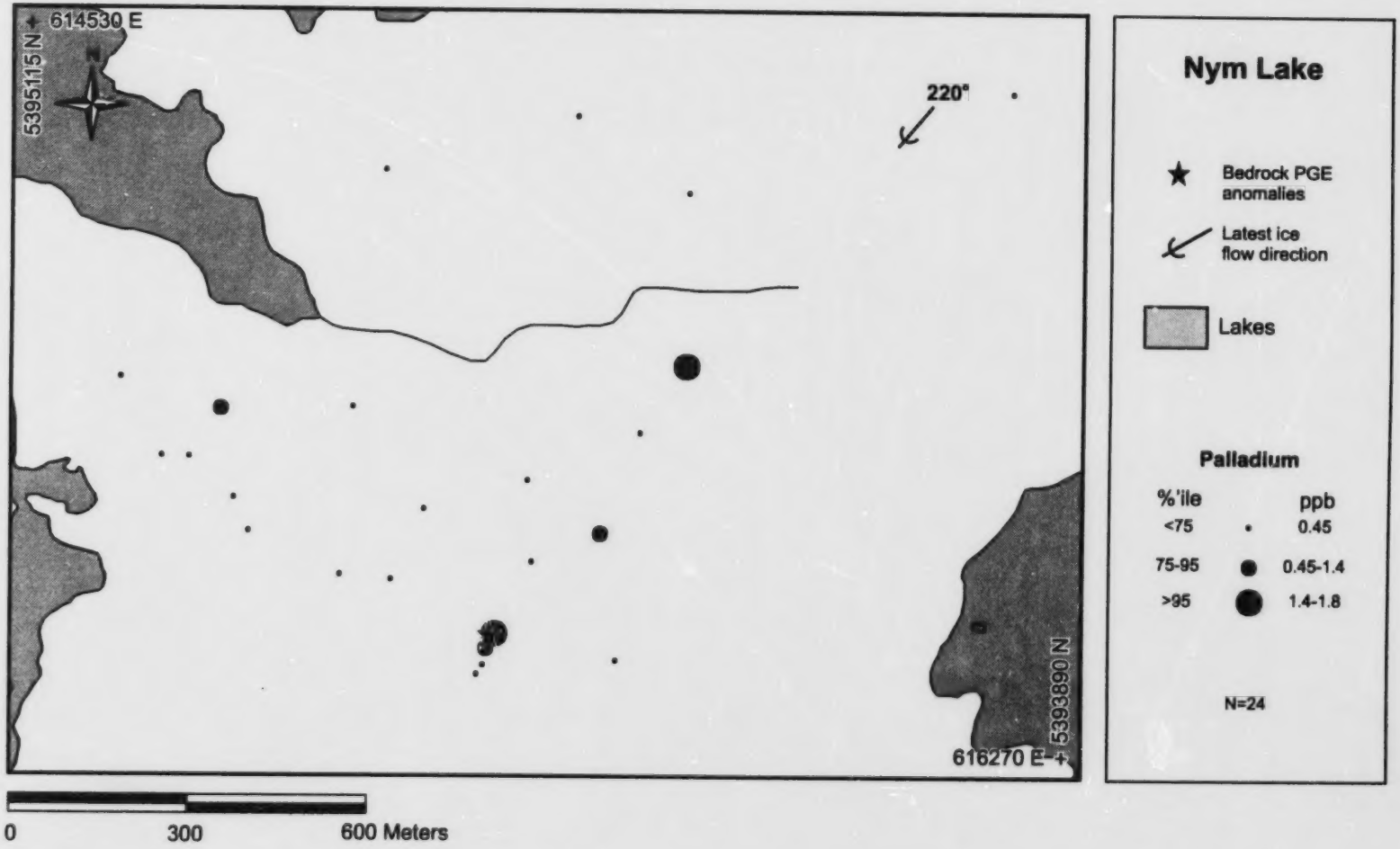
Copper in the <177μm fraction of humus.



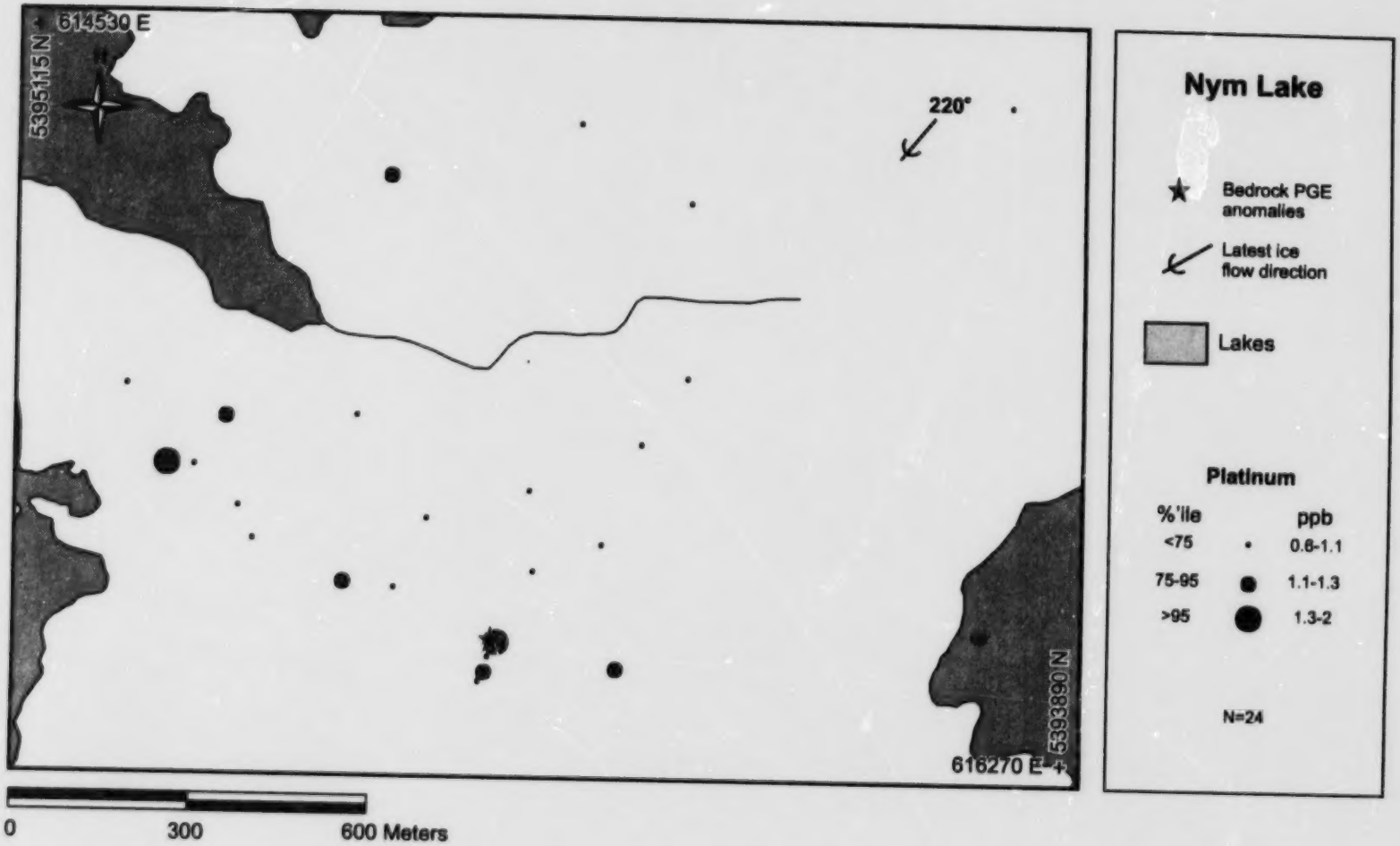
Nickel in the <177μm fraction of humus.



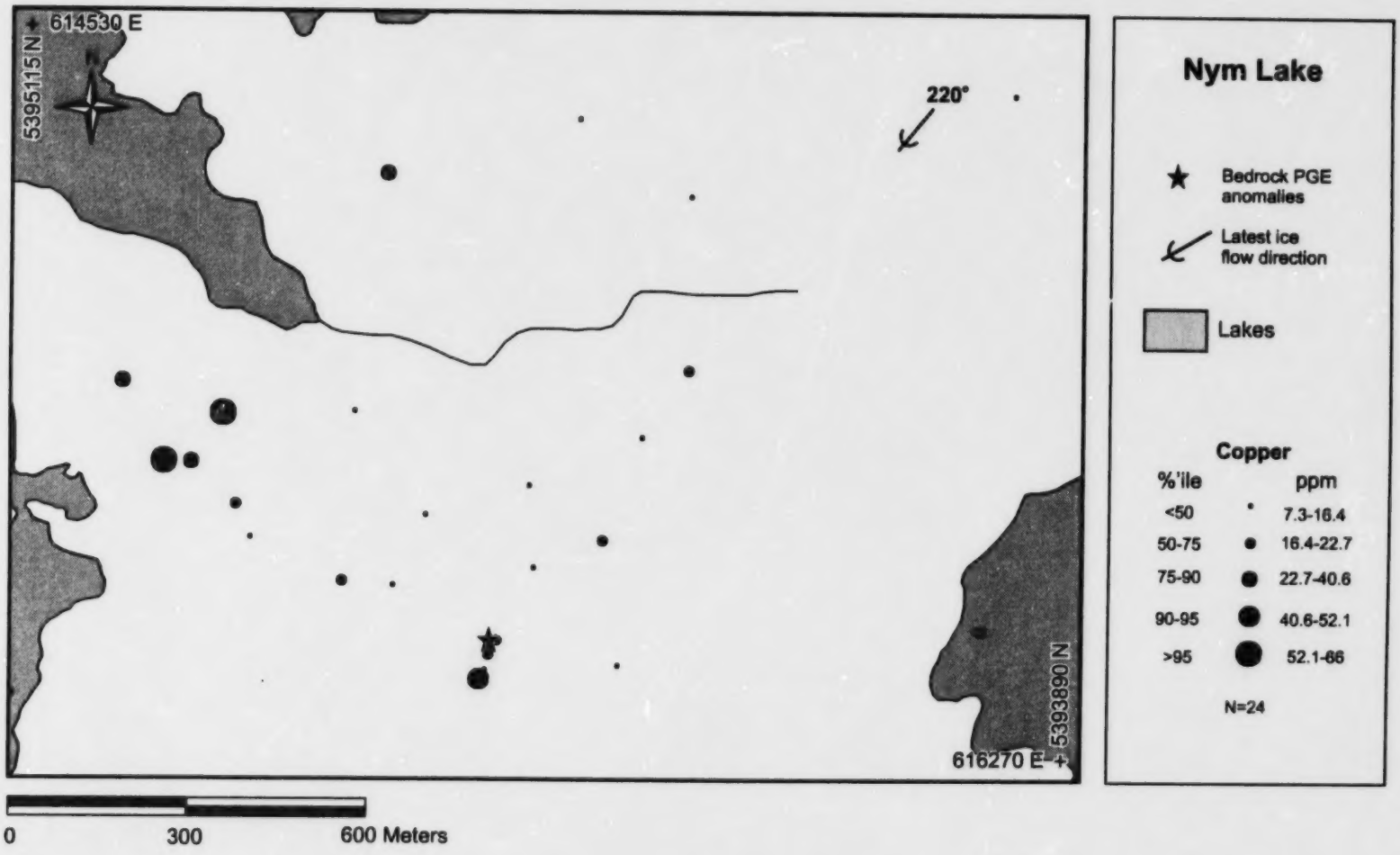
Gold in the <177μm fraction of humus .



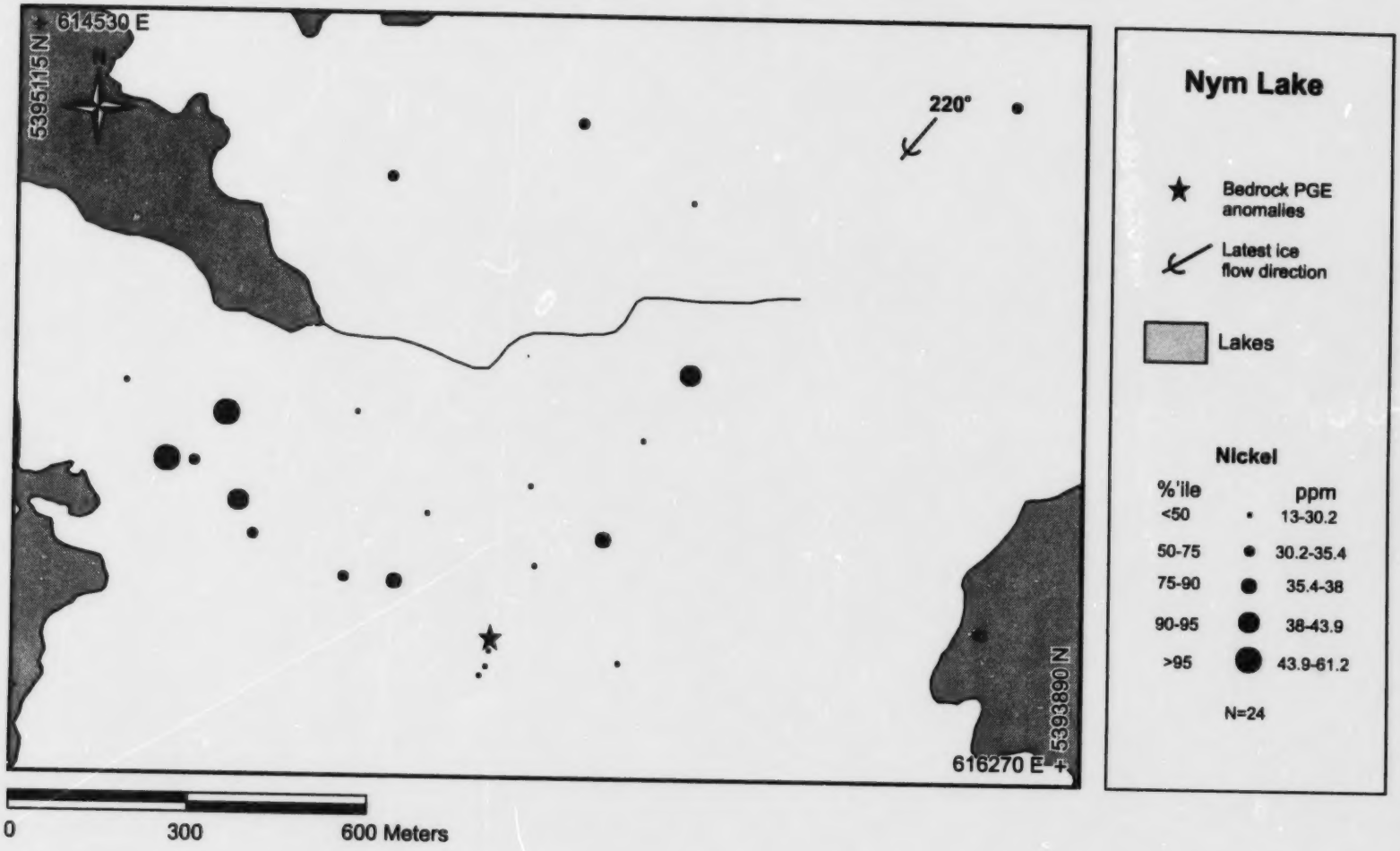
Palladium in the <63μm fraction of B-horizon.



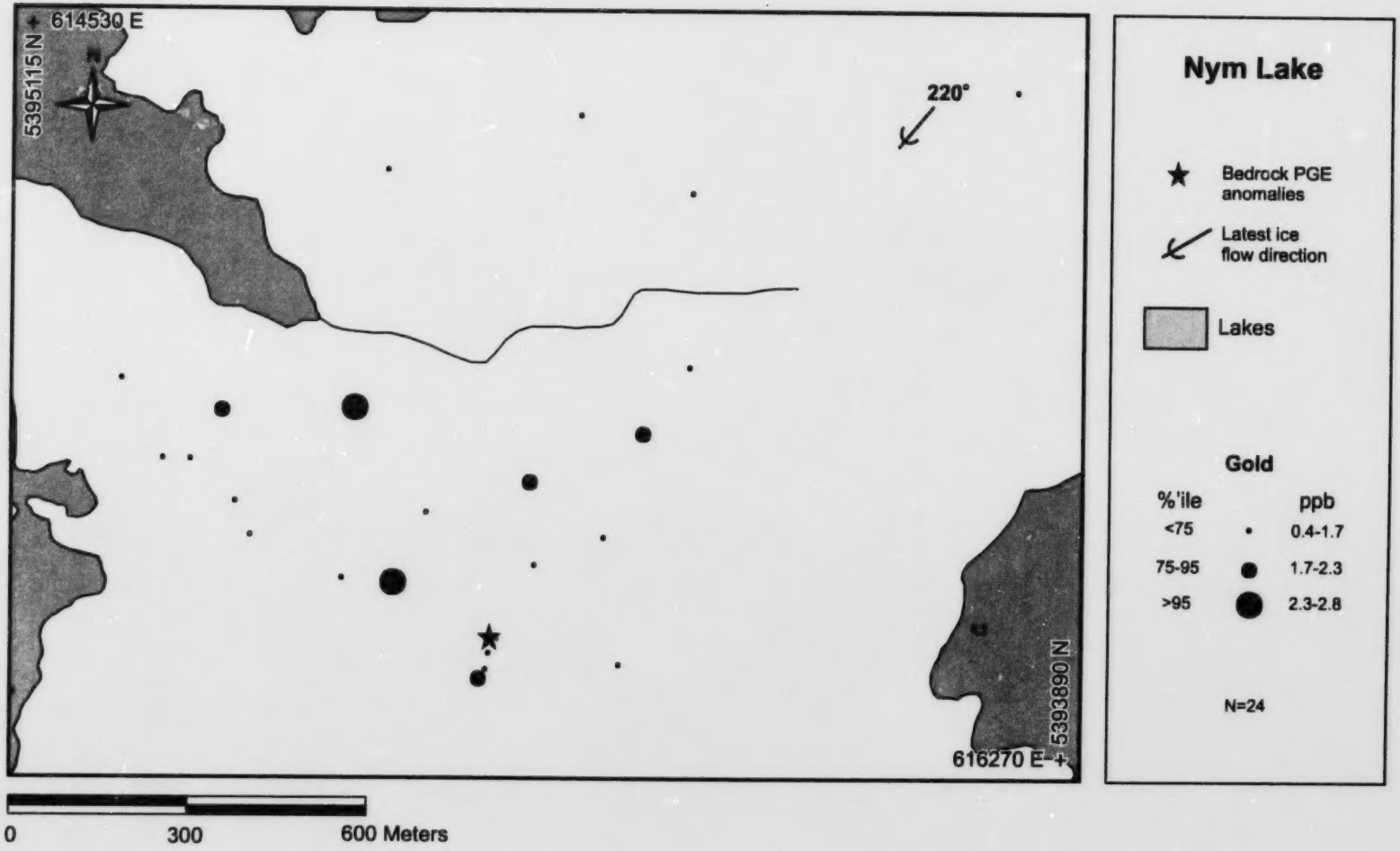
Platinum in the <63μm fraction of B-horizon.



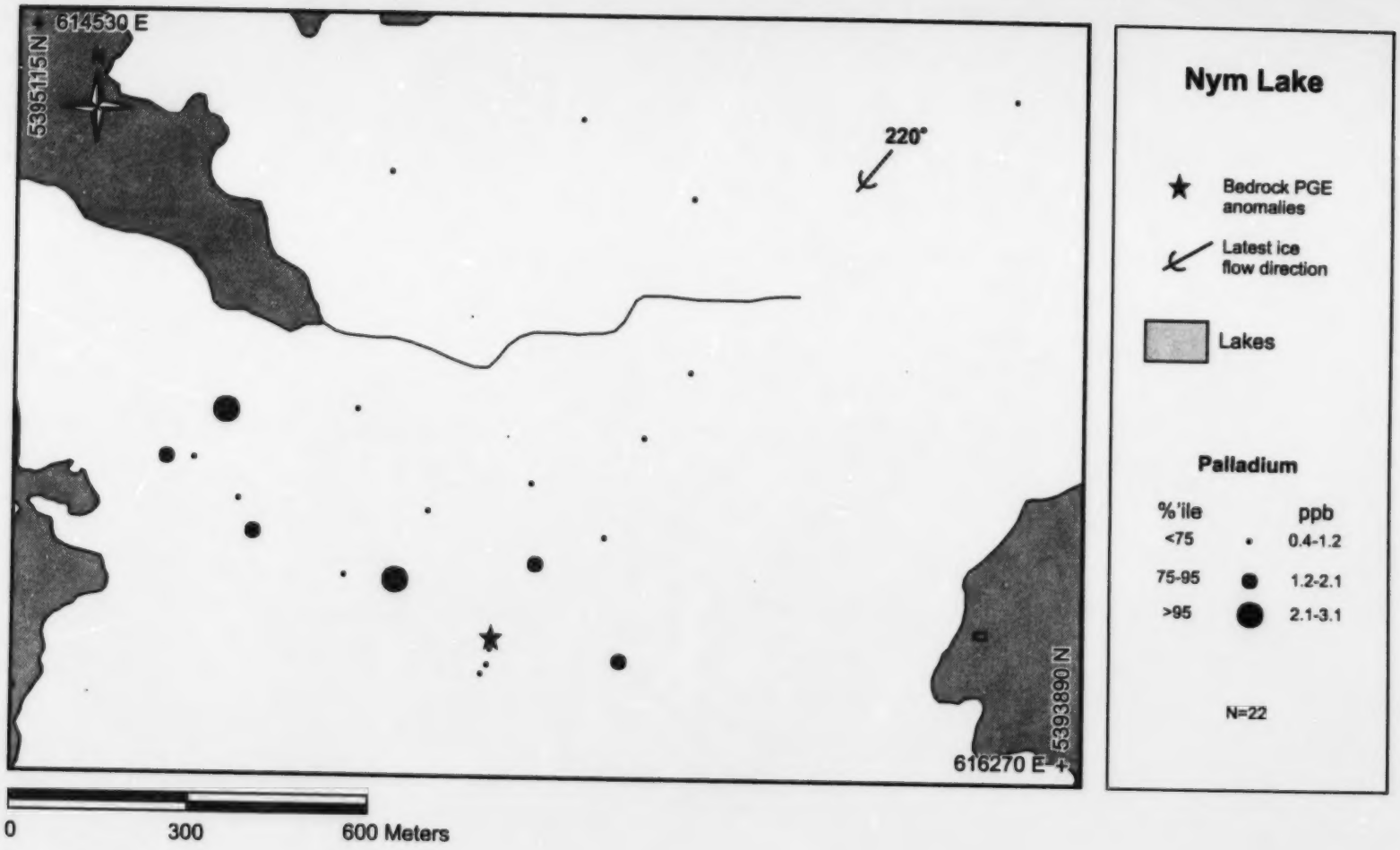
Copper in the <63μm fraction of B-horizon.



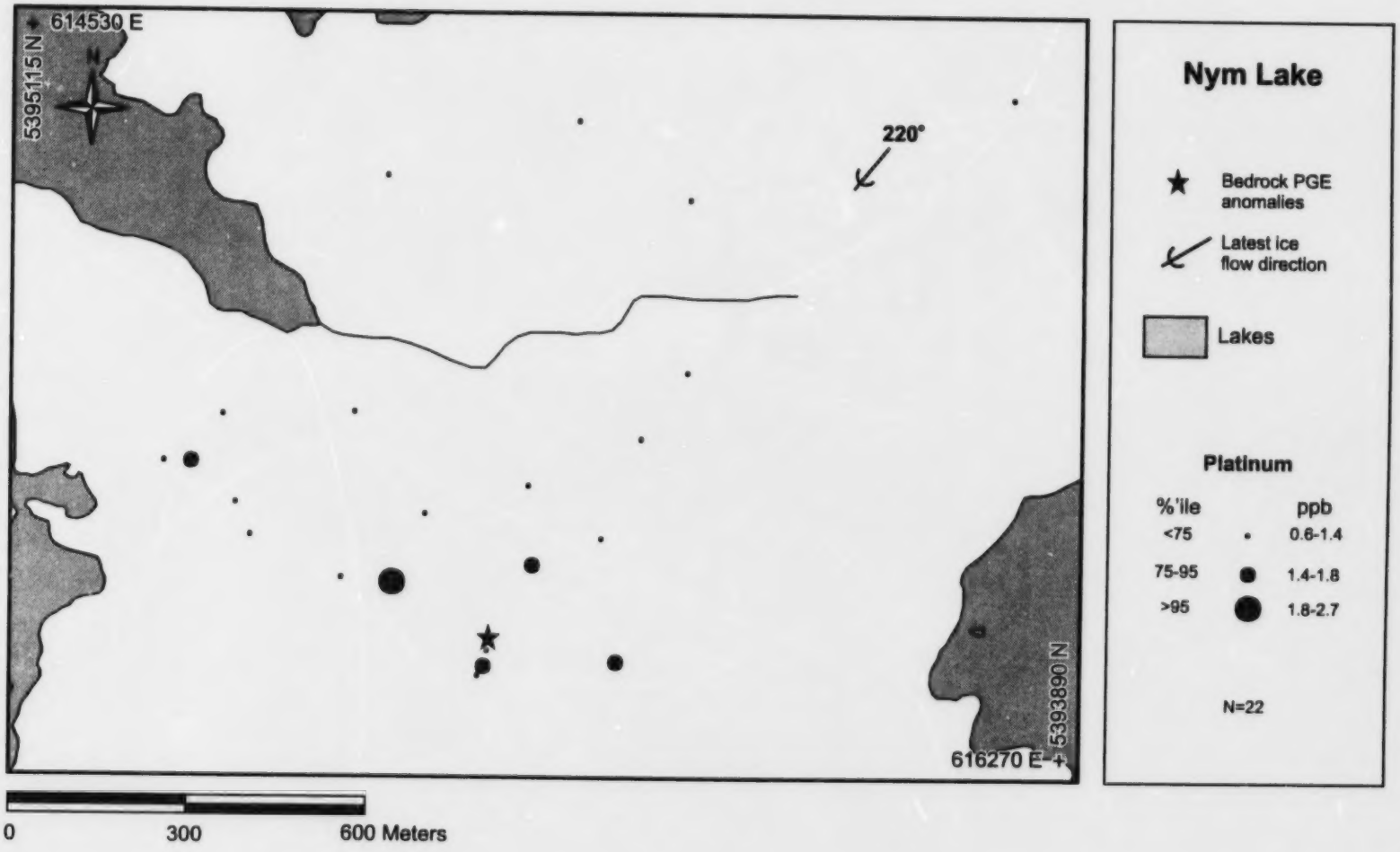
Nickel in the <63μm fraction of B-horizon.



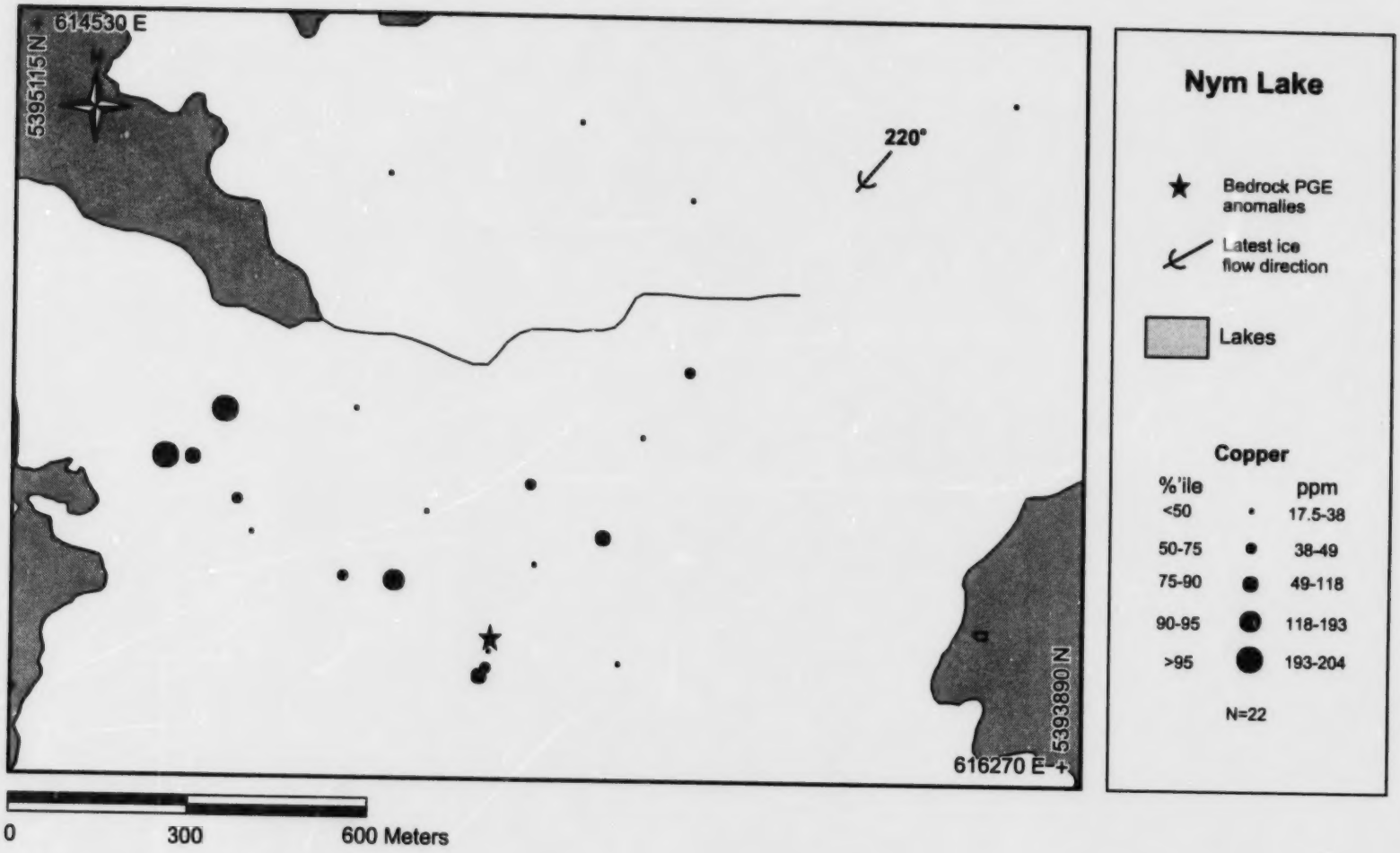
Gold in the <63μm fraction of B-horizon.



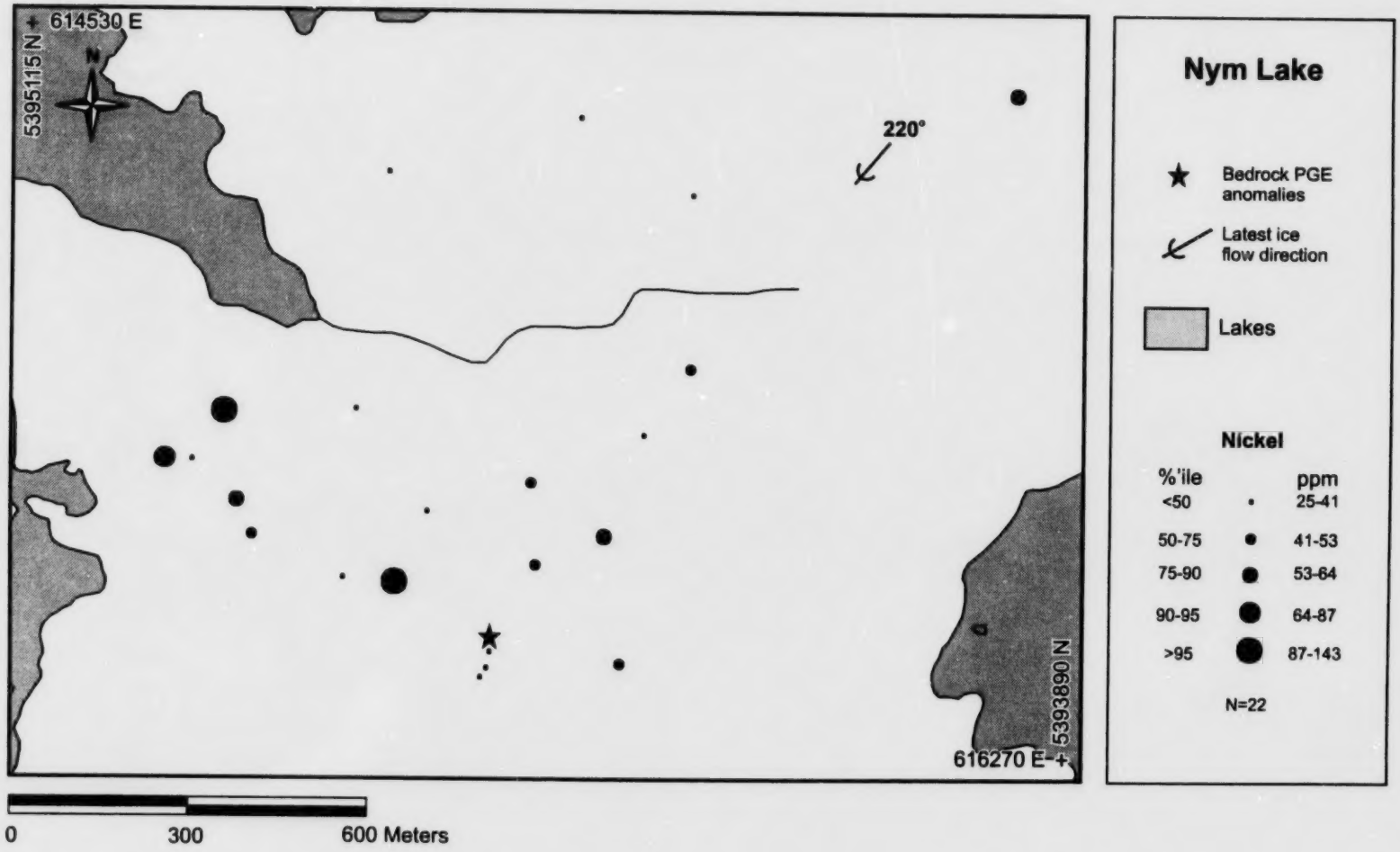
Palladium in the <63mm fraction of C-horizon till.



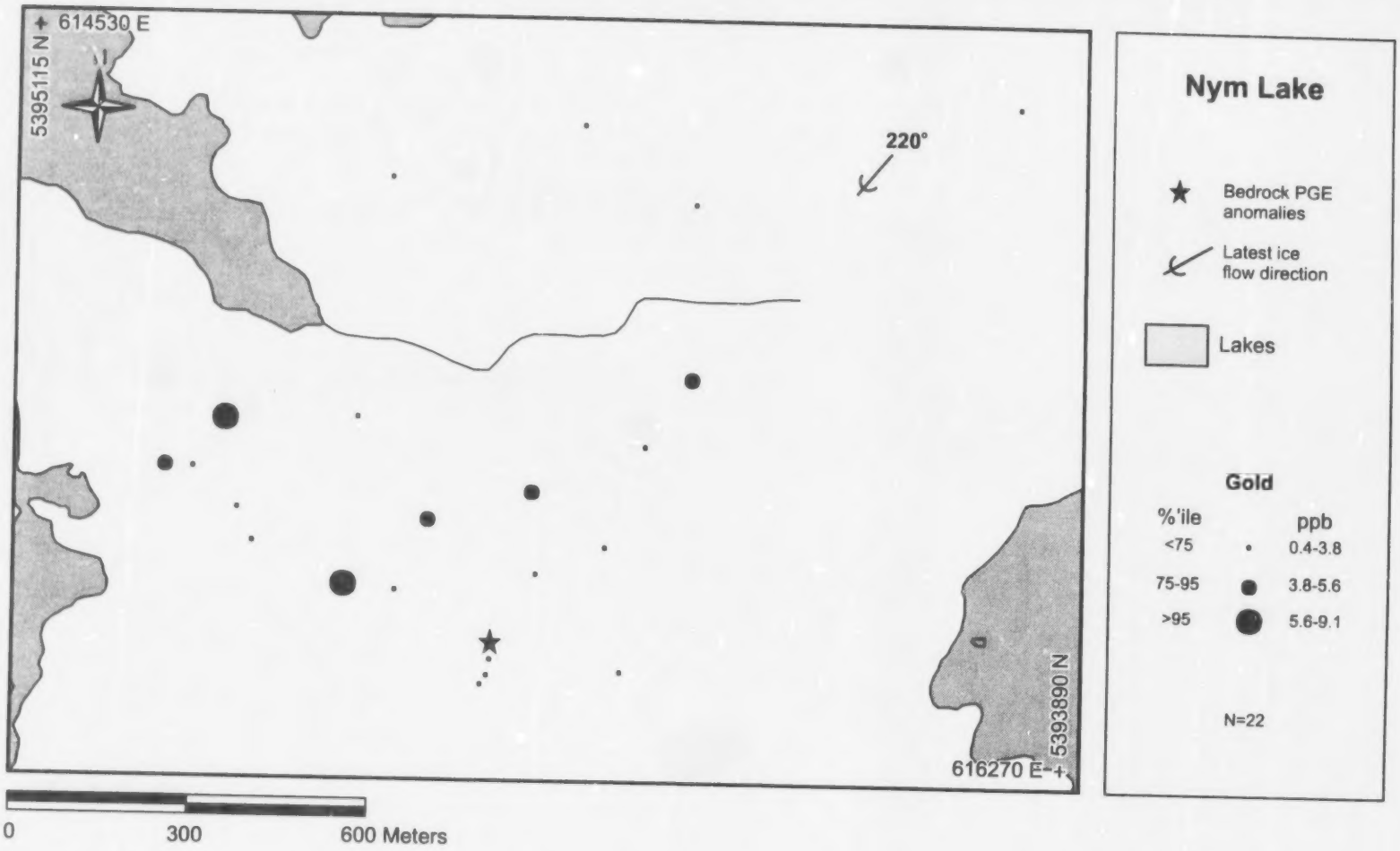
Platinum in the <63μm fraction of C-horizon till.



Copper in the <63μm fraction of C-horizon till.



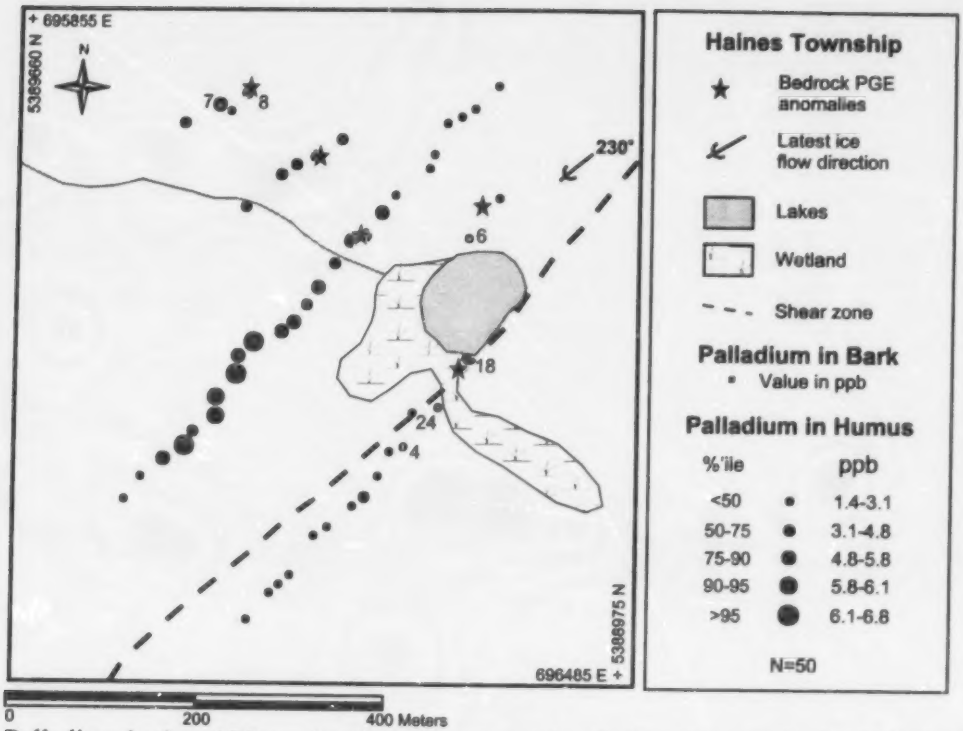
Nickel in the <63μm fraction of C-horizon till.



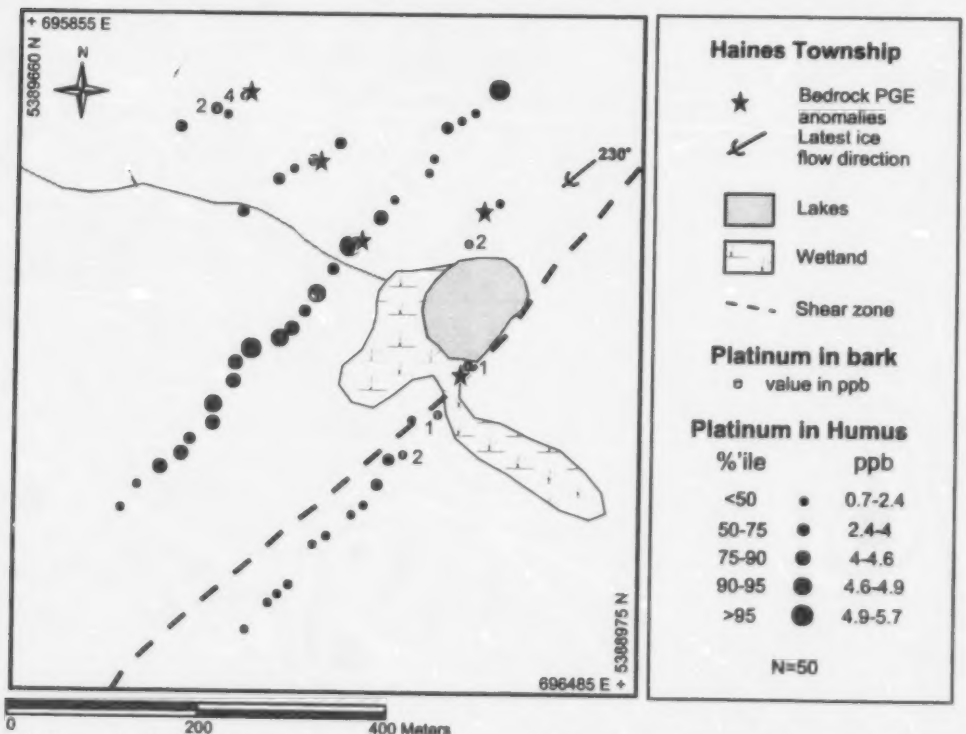
Gold in the <63μm fraction of C-horizon till.

APPENDIX F

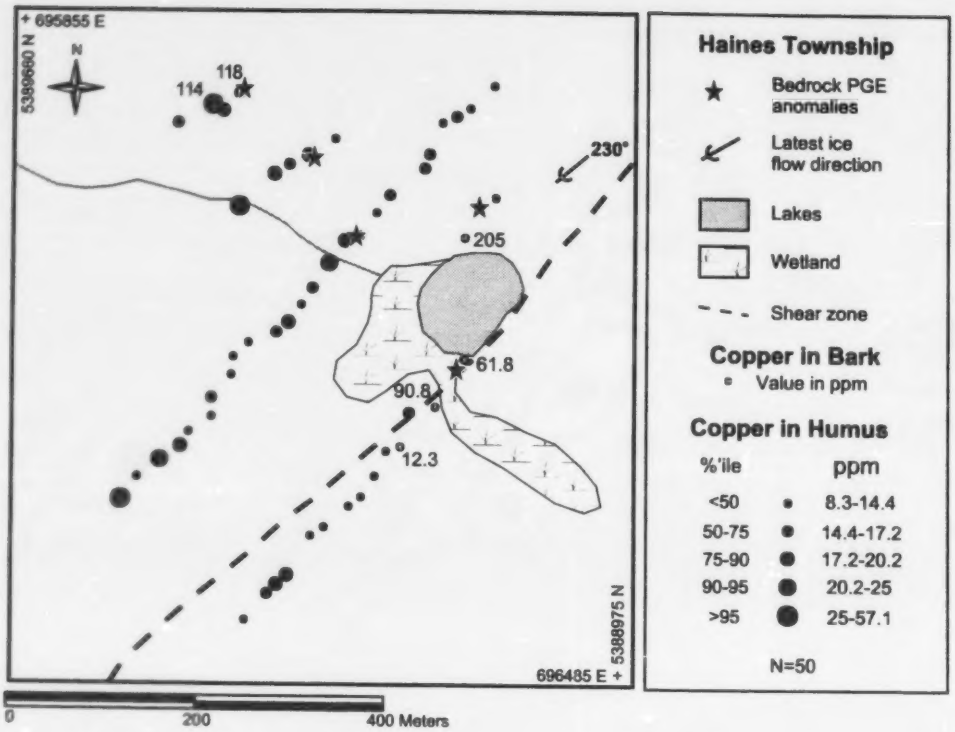
Haines Township Geochemical Plots



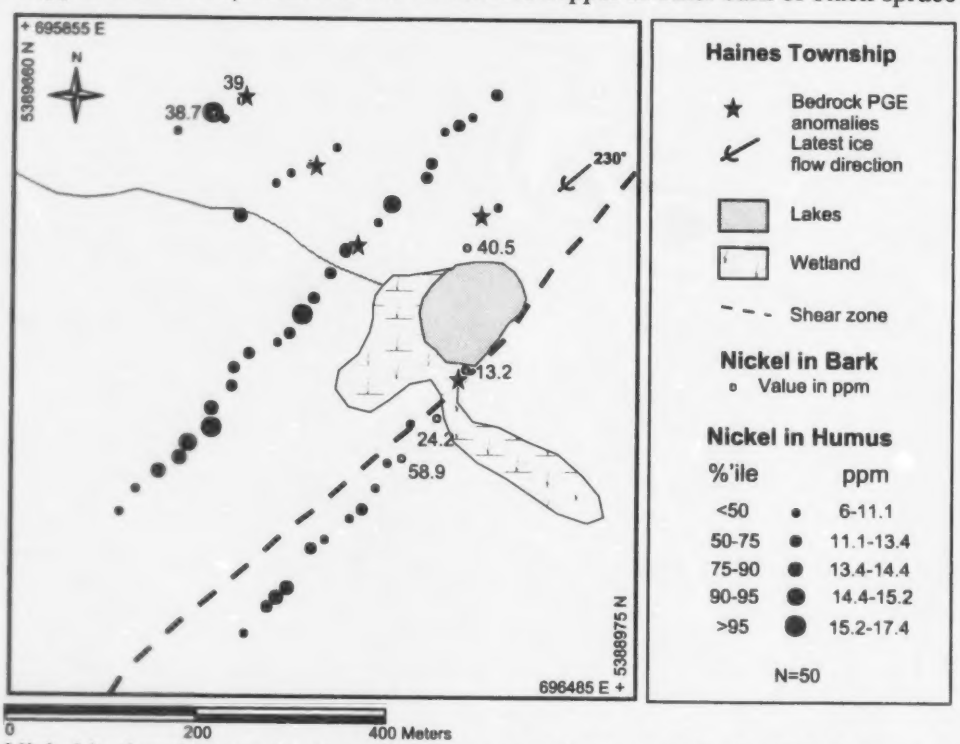
Palladium in the <177μm fraction of humus and palladium in outer bark of black spruce trees.



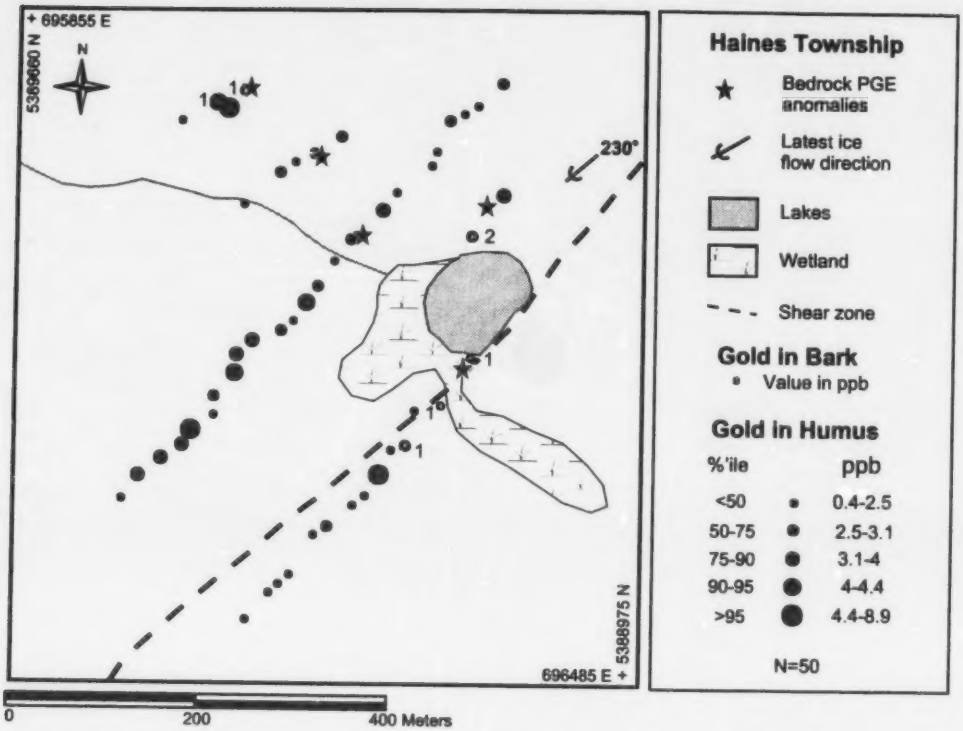
Platinum in the <177μm fraction of humus and platinum in outer bark of black spruce trees.



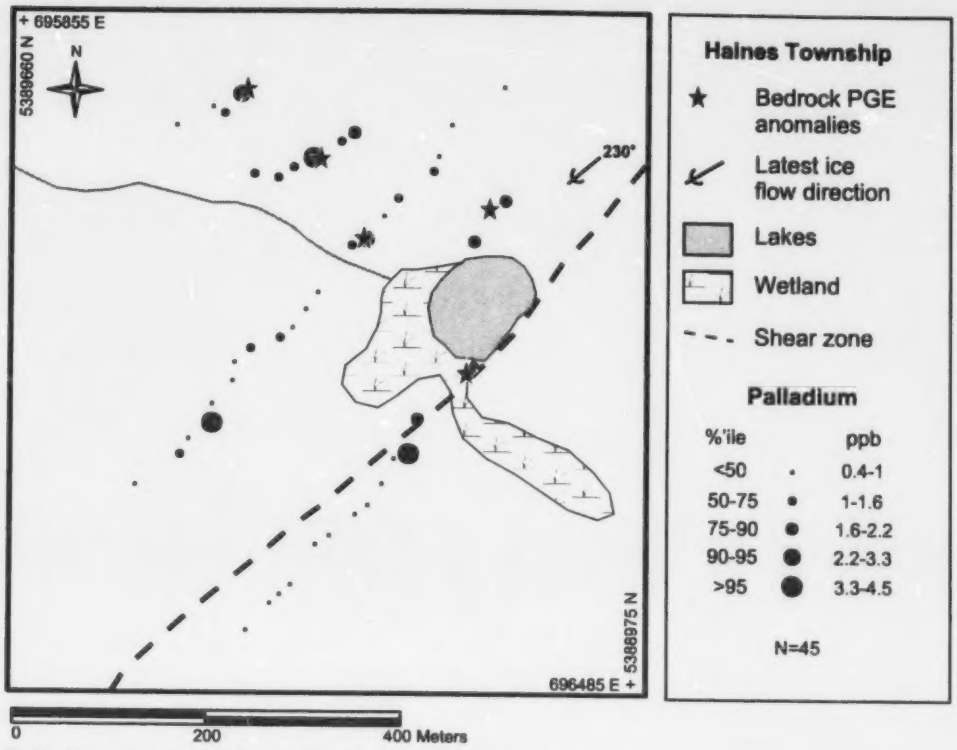
Copper in the <177μm fraction of humus and copper in outer bark of black spruce trees



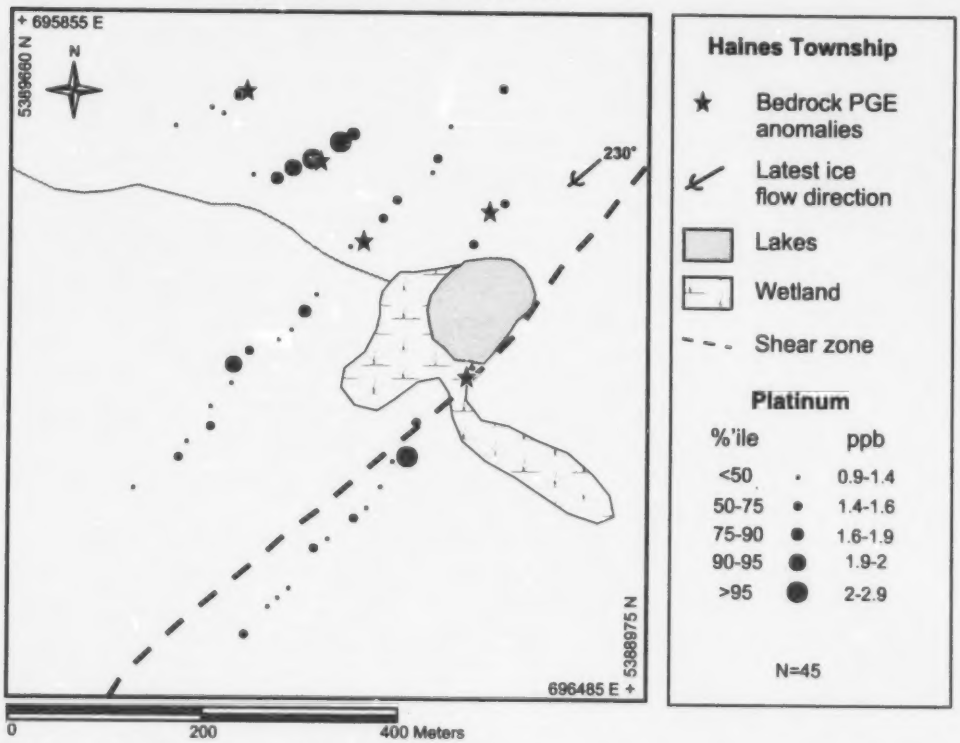
Nickel in the <177μm fraction of humus and nickel in outer bark of black spruce trees.



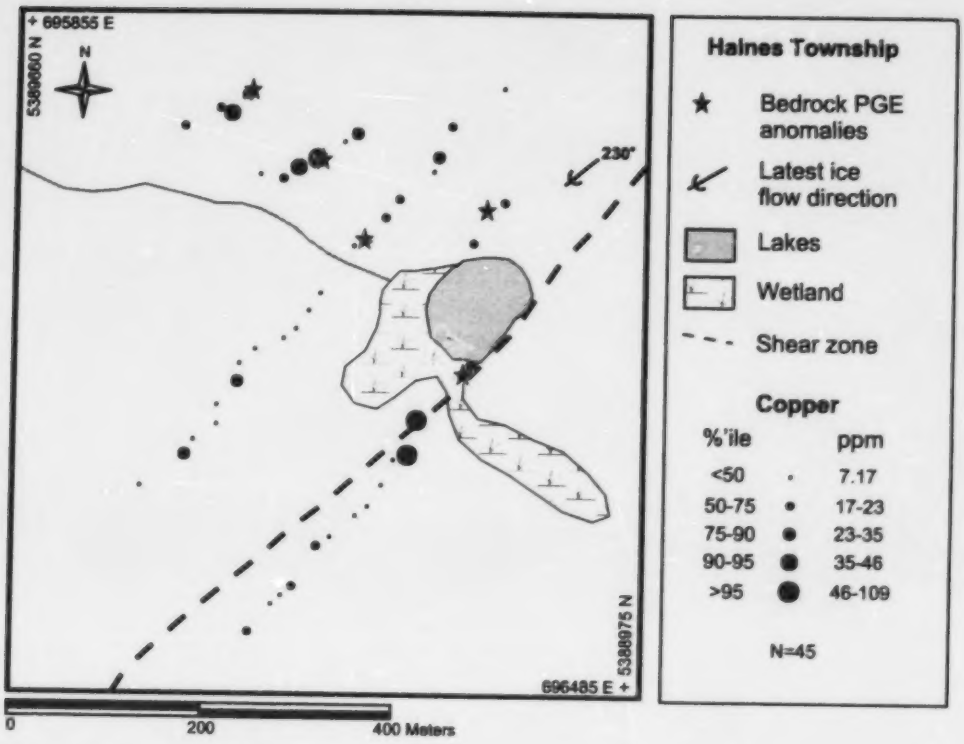
Gold in the <177μm fraction of humus and gold in outer bark of black spruce trees.



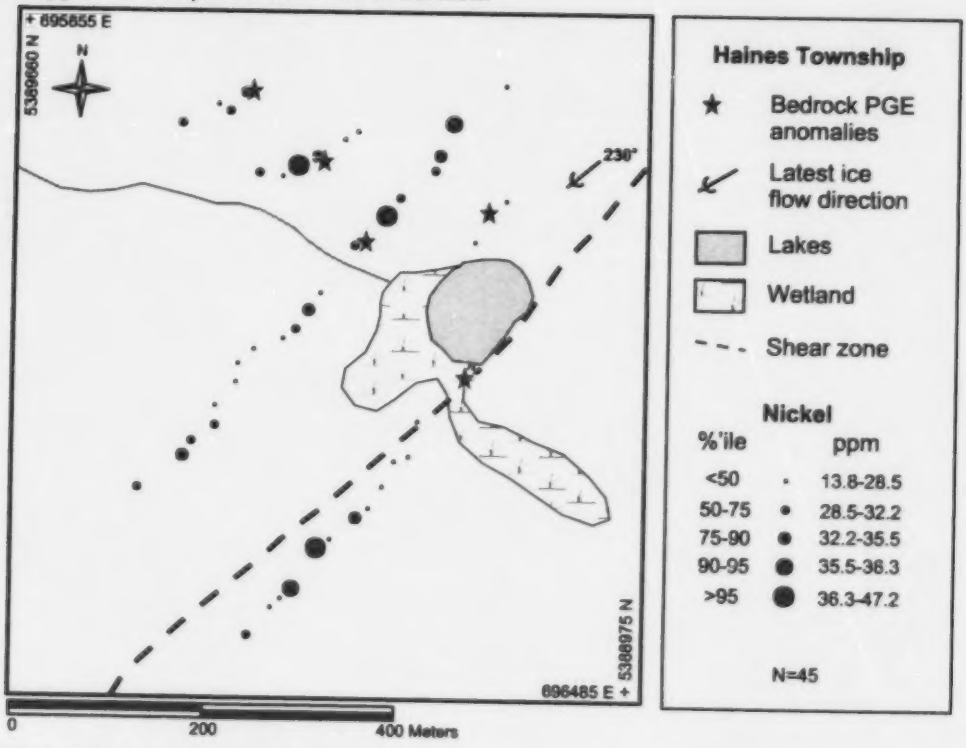
Palladium in the <63μm fraction of B-horizon.



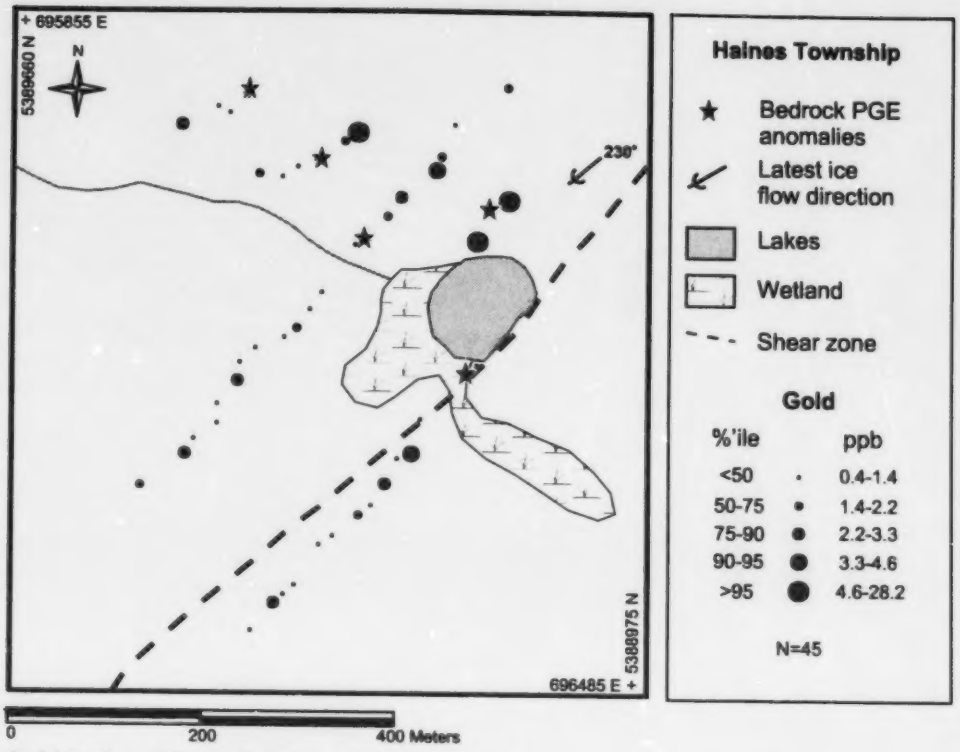
Platinum in the <63μm fraction of B-horizon.



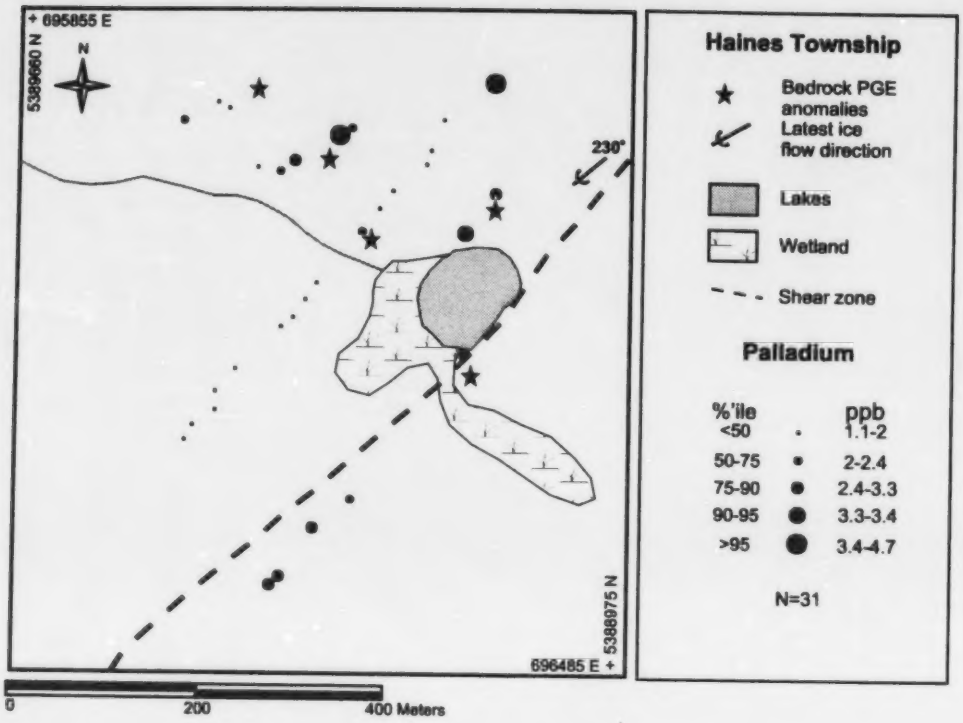
Copper the <63μm fraction of B-horizon.



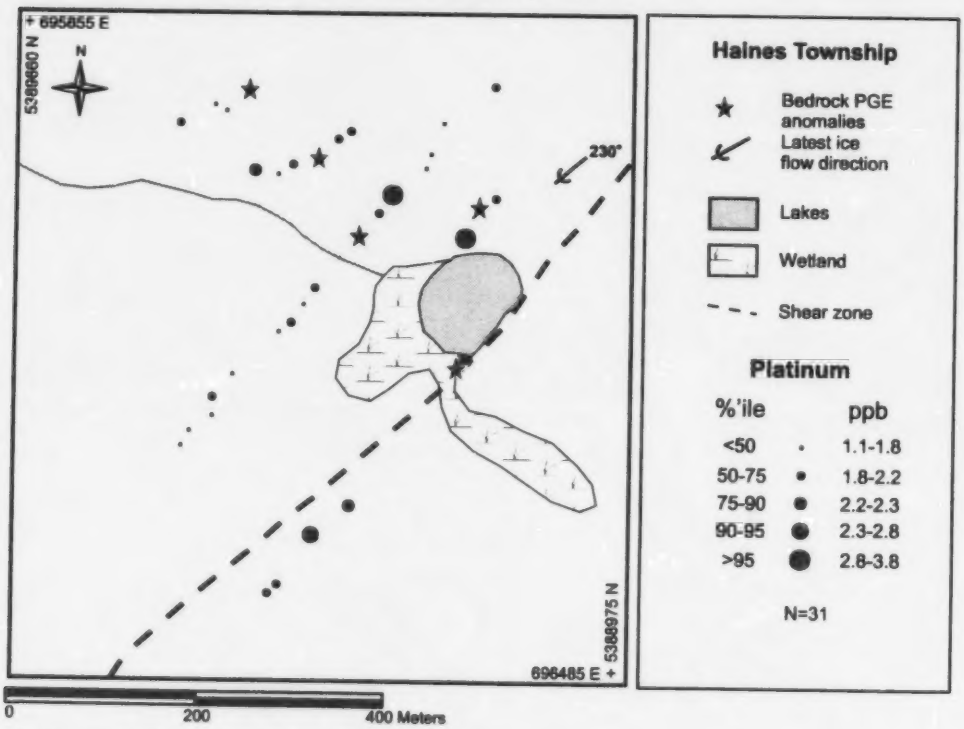
Nickel the <63μm fraction of B-horizon.



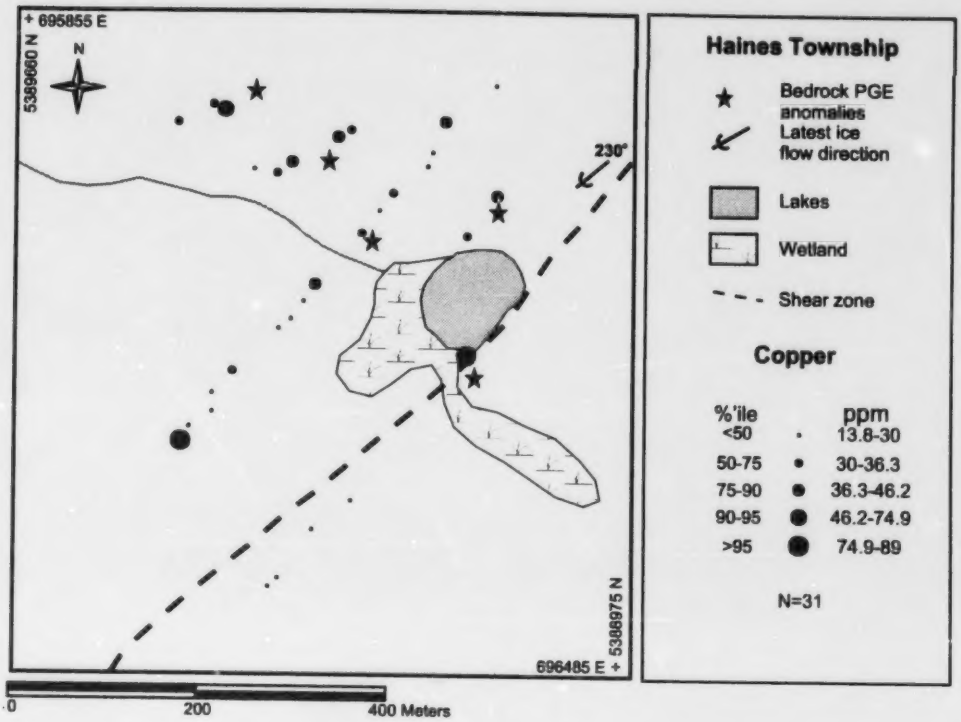
Gold in the <63μm fraction of B-horizon.



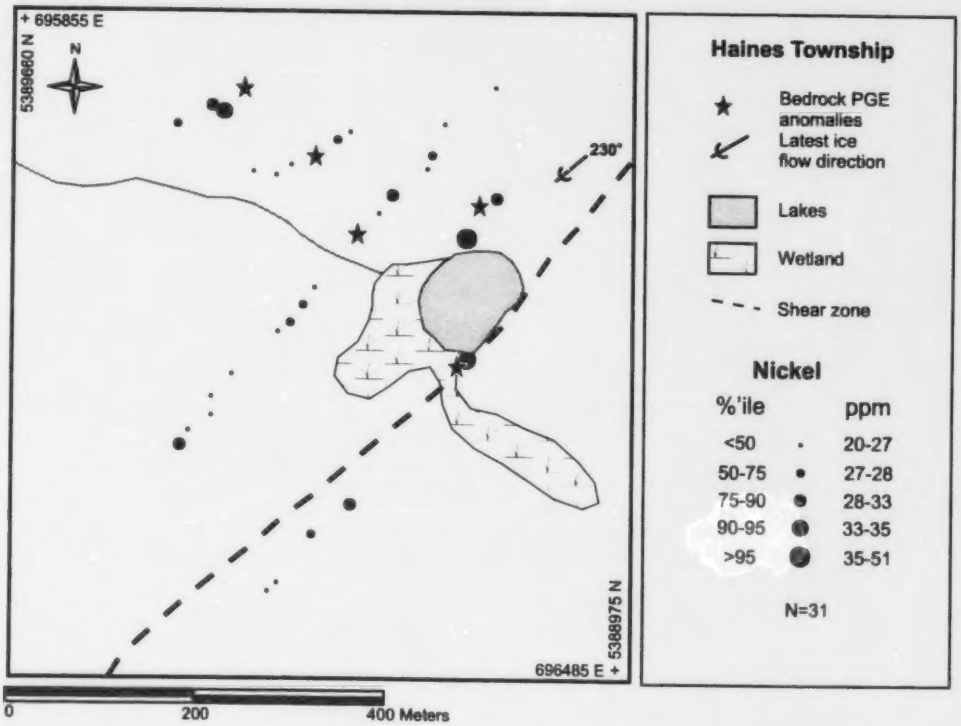
Palladium in the <63μm fraction of C-horizon till.



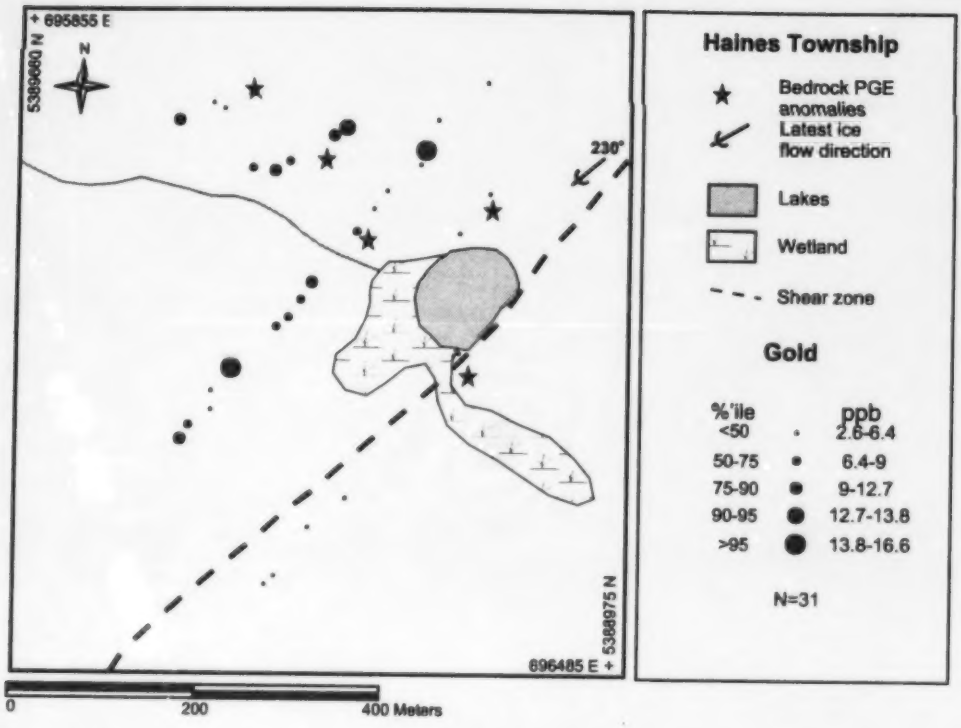
Platinum in the <63μm fraction of C-horizon till.



Copper in the <63μm fraction of C-horizon till.



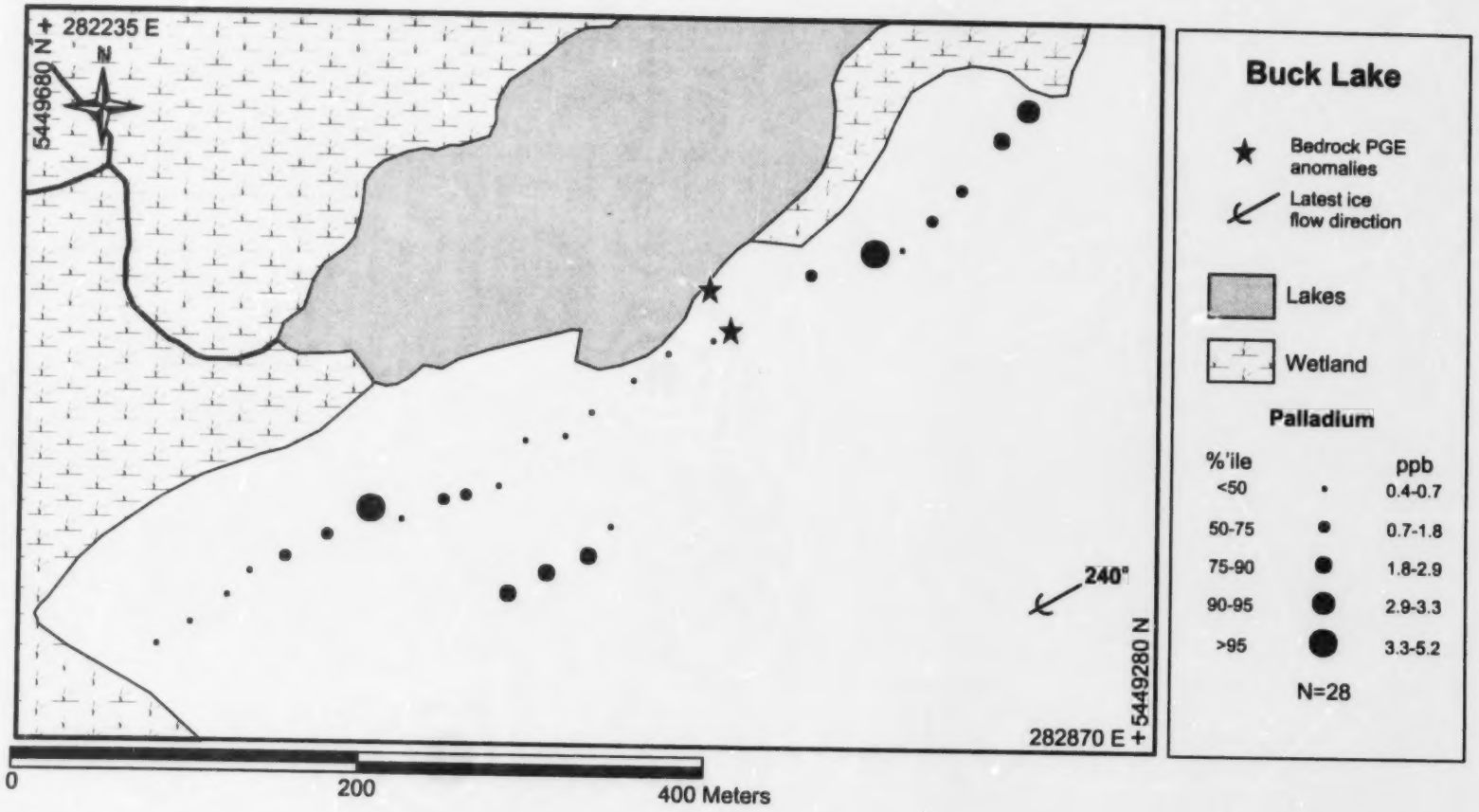
Nickel in the <63μm fraction of C-horizon till.



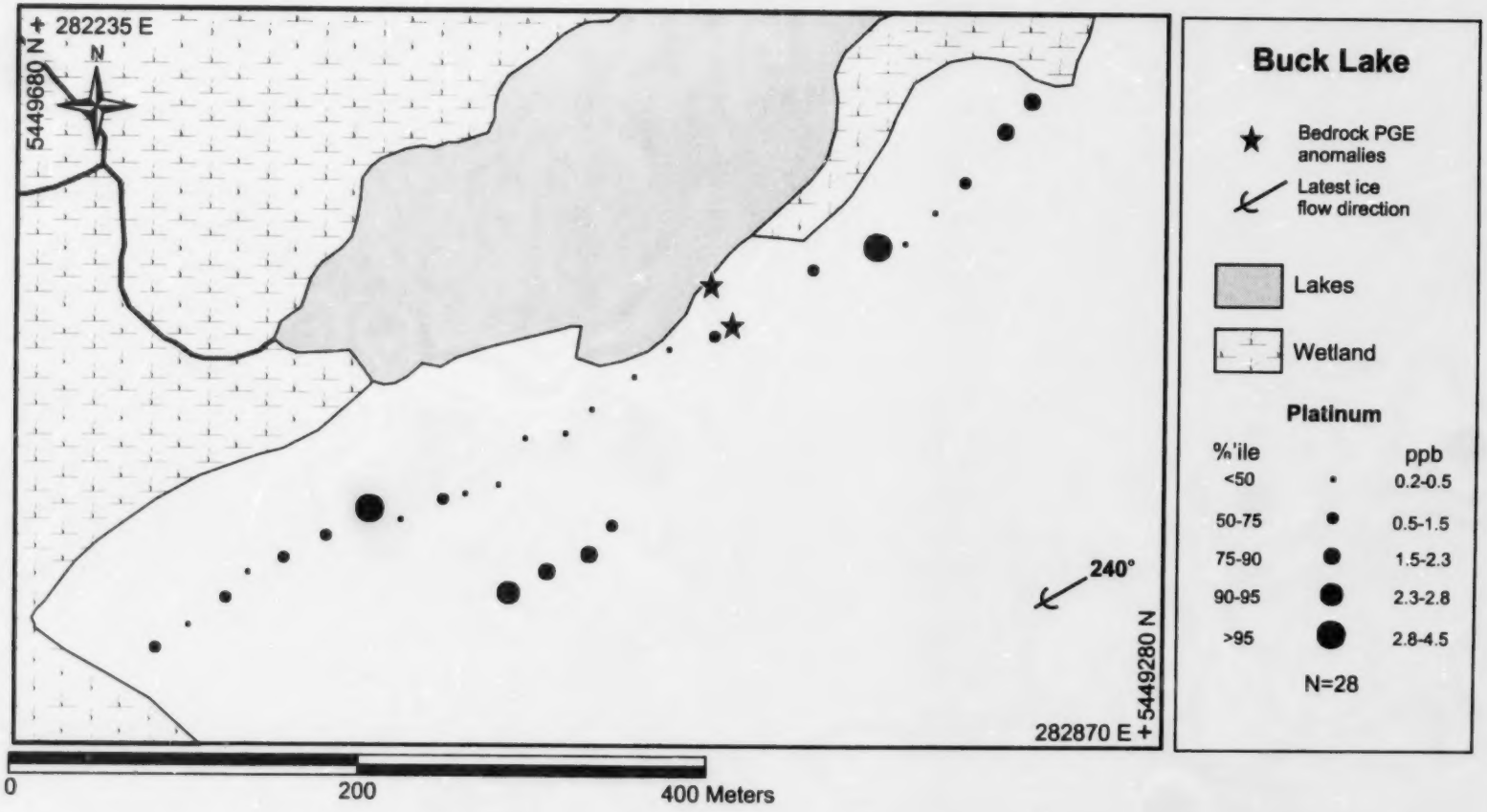
Gold in the <63μm fraction of C-horizon till.

APPENDIX G

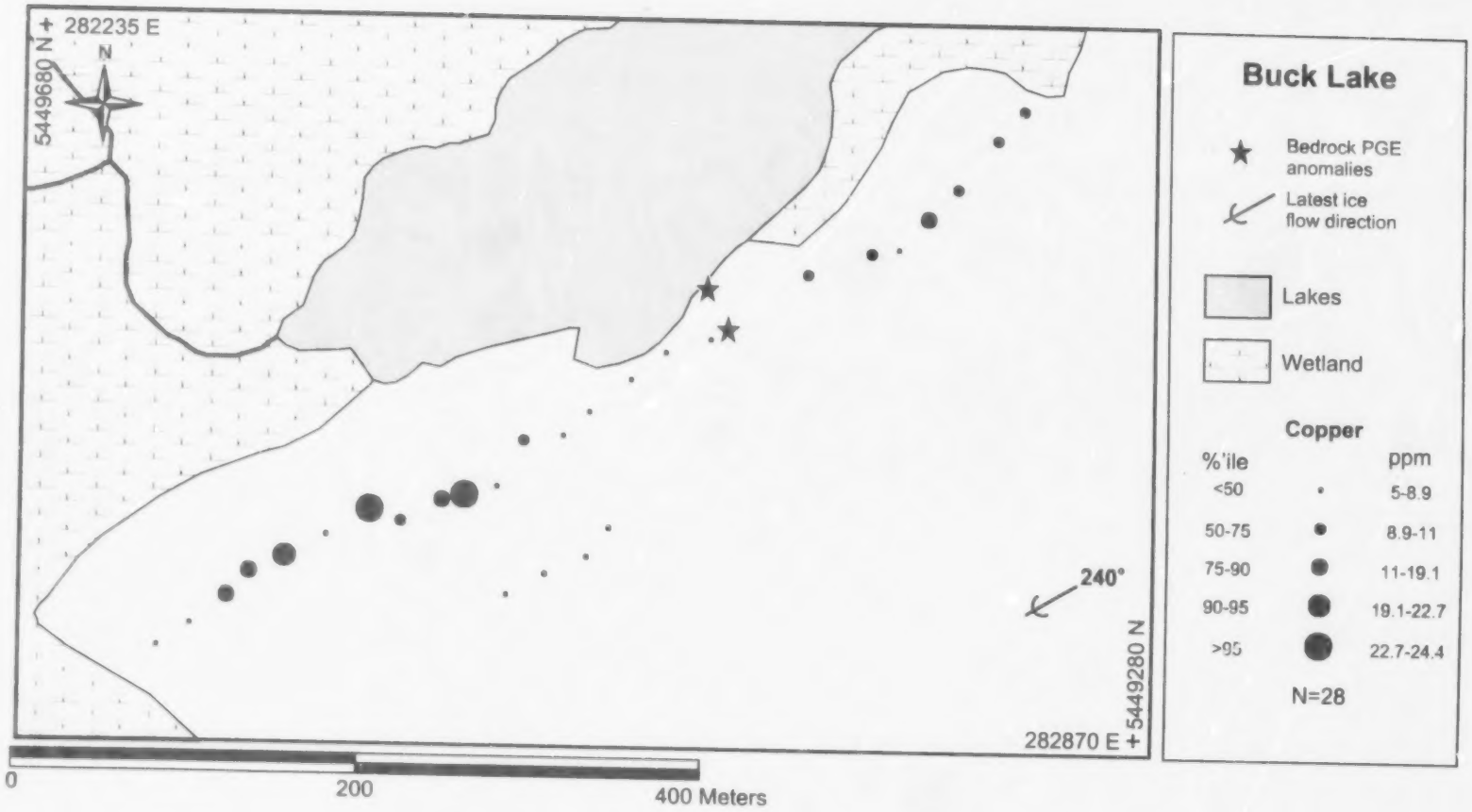
Buck Lake Geochemical Plots



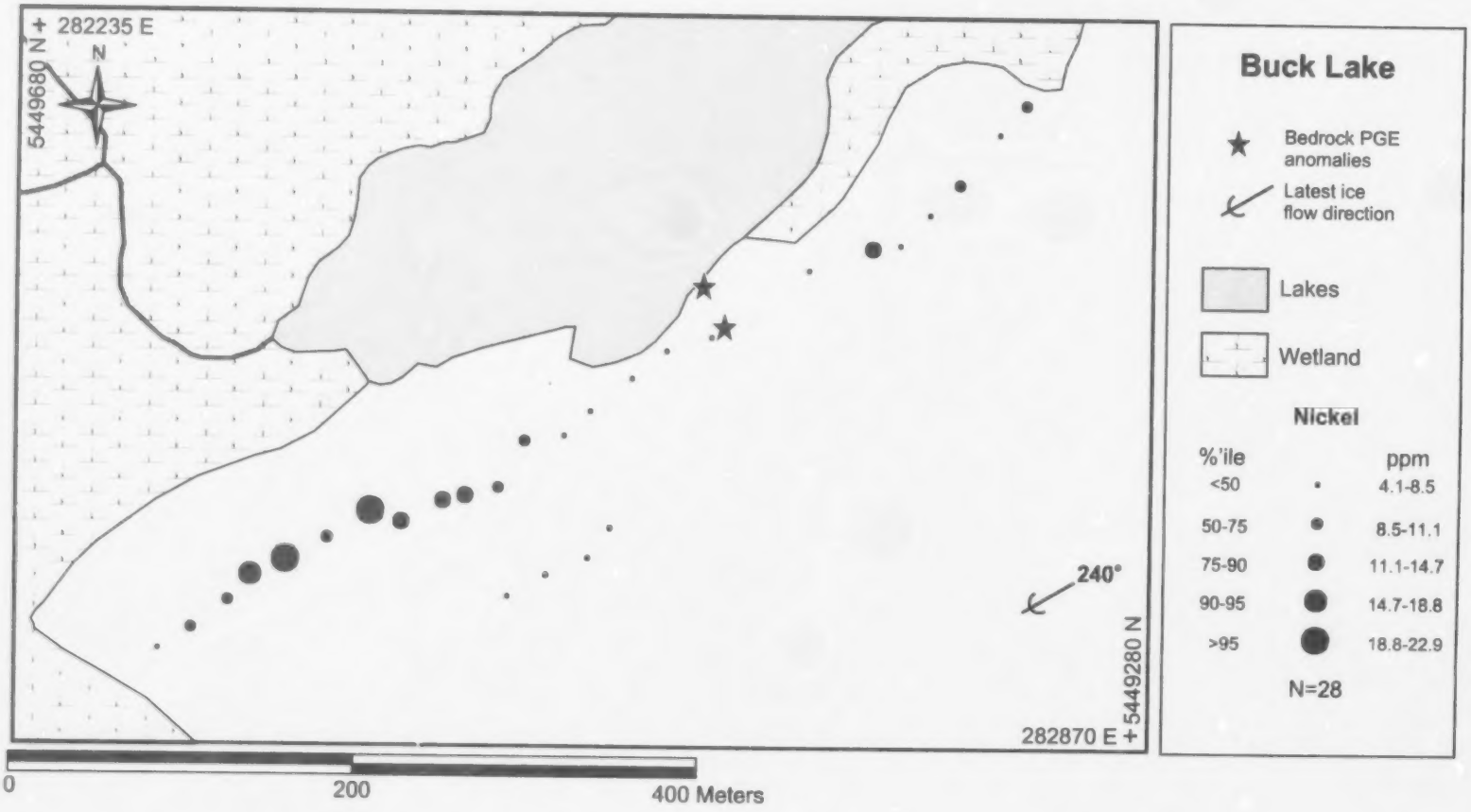
Palladium in the <177μm fraction of humus.



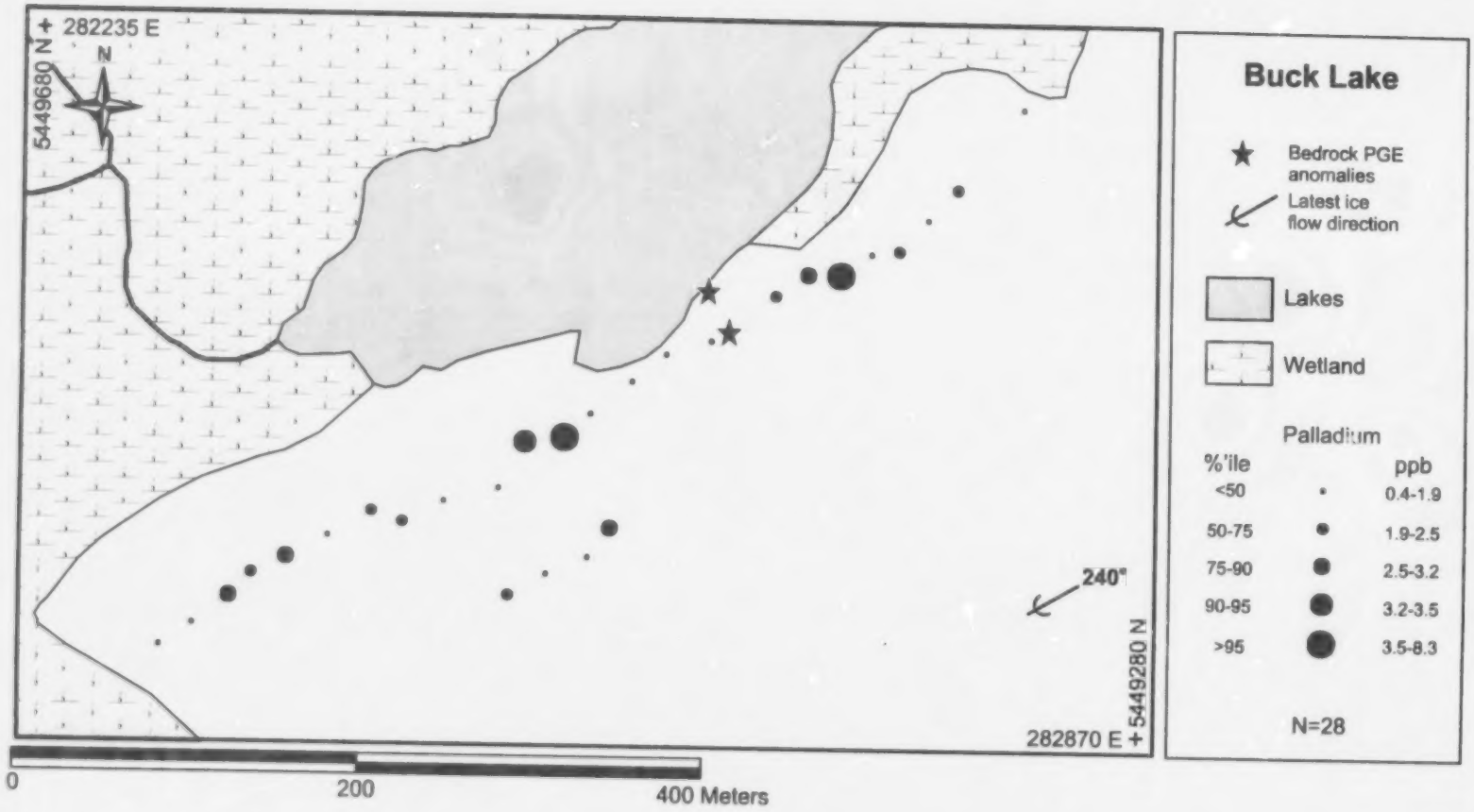
Platinum in the <177/ım fraction of humus.



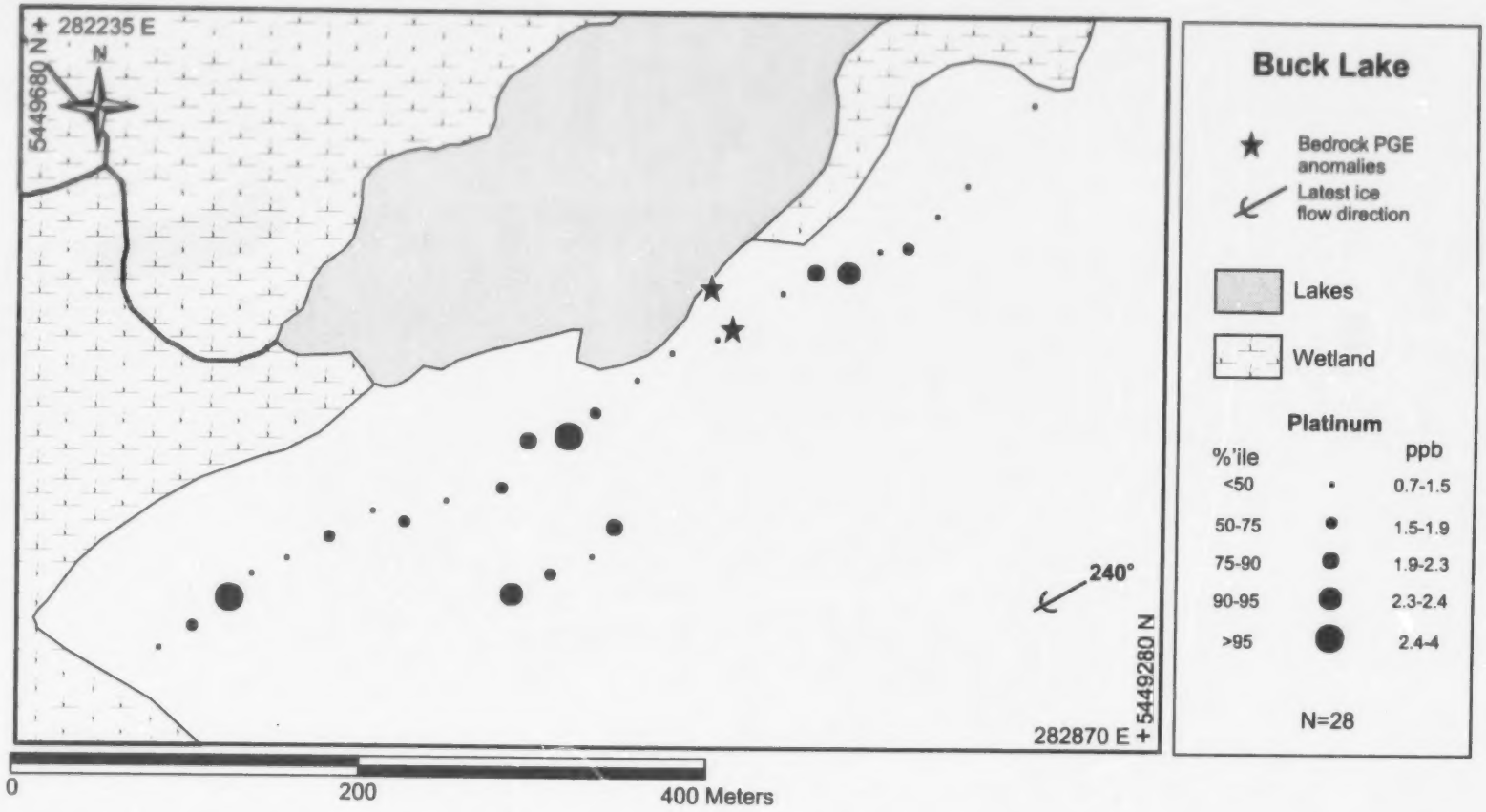
Copper in the <177 µm fraction of humus.



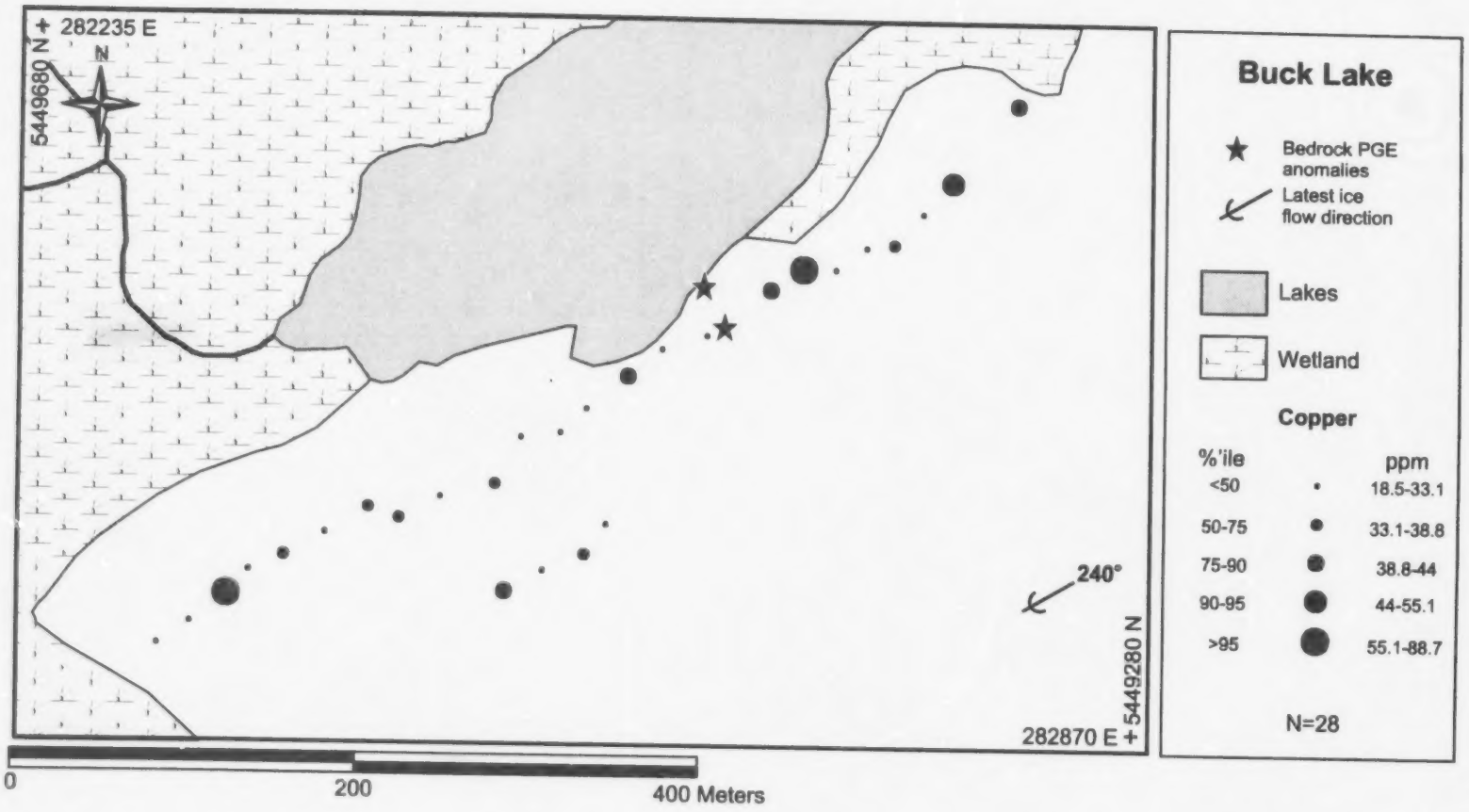
Nickel in the <177μm fraction of humus.



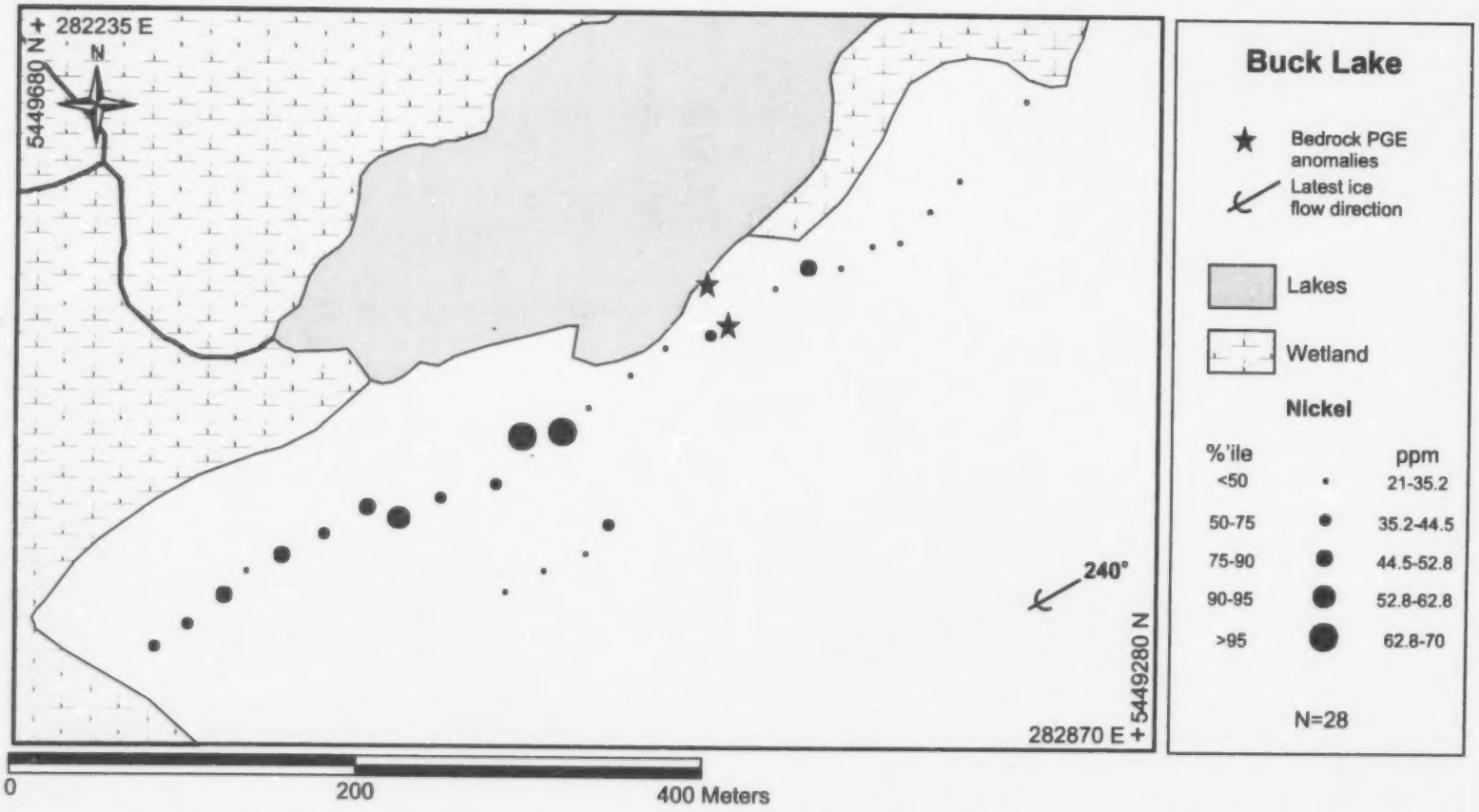
Palladium in the <63μm fraction of B-horizon.



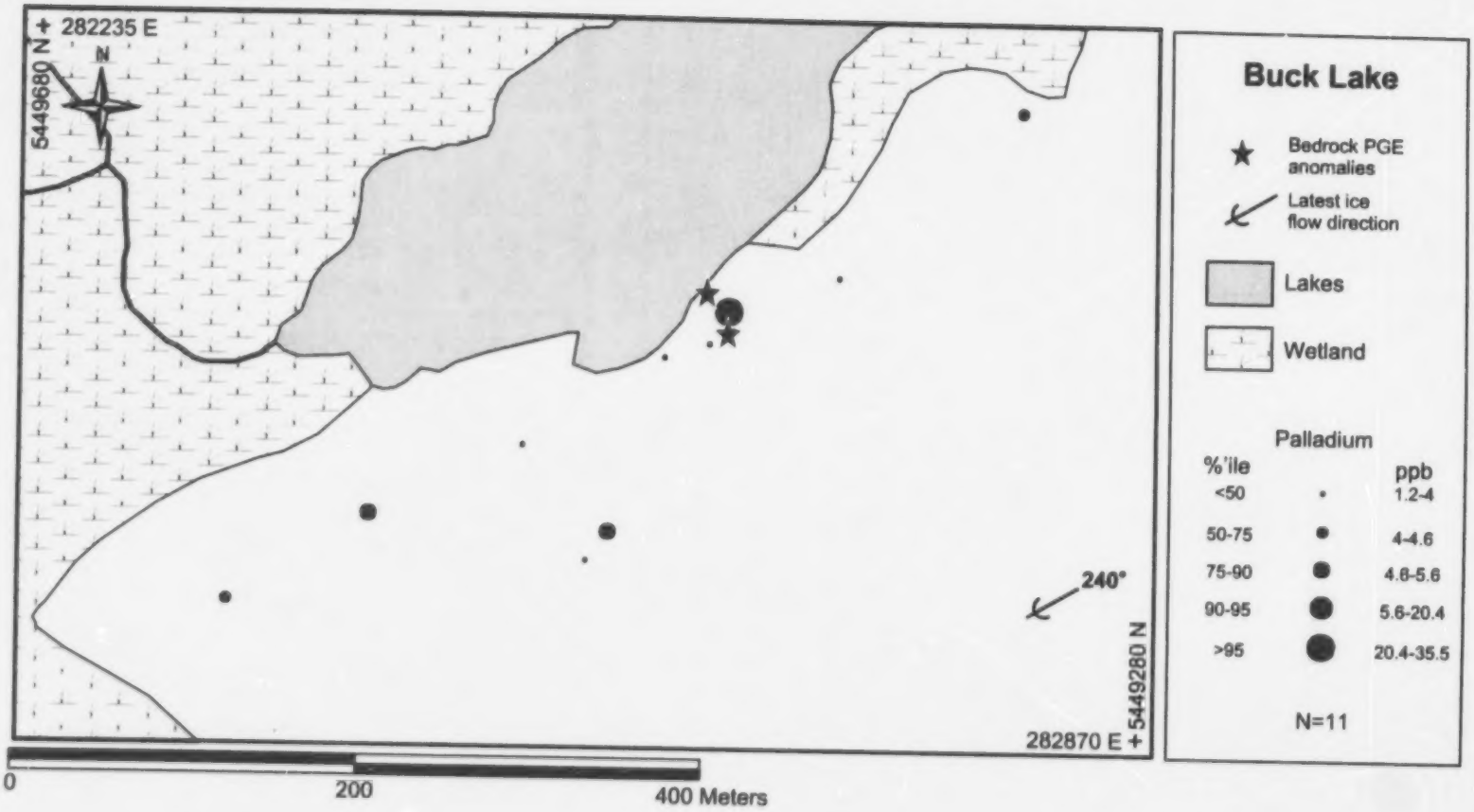
Platinum in the <63μm fraction of B-horizon.



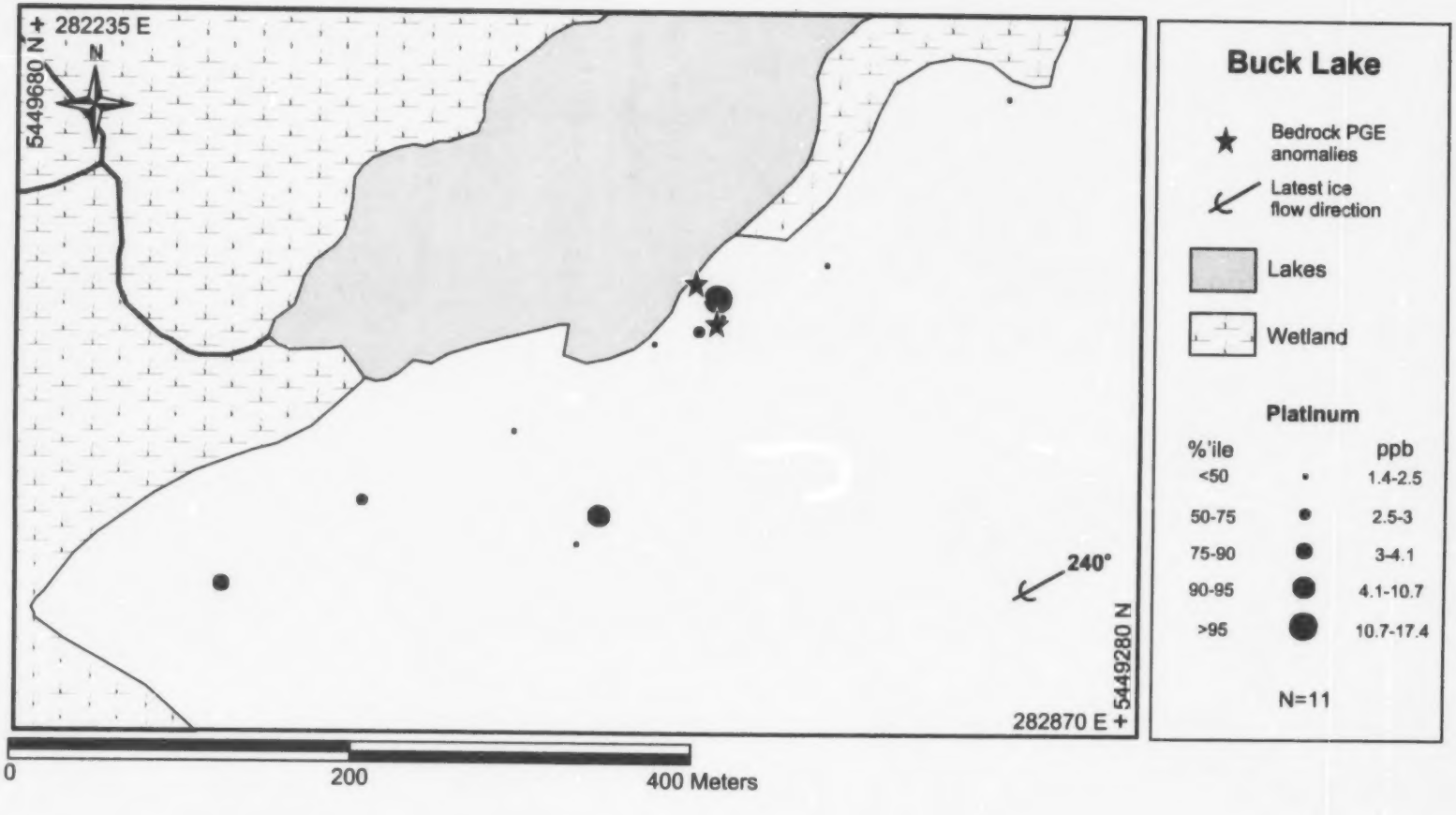
Copper in the <63μm fraction of B-horizon.



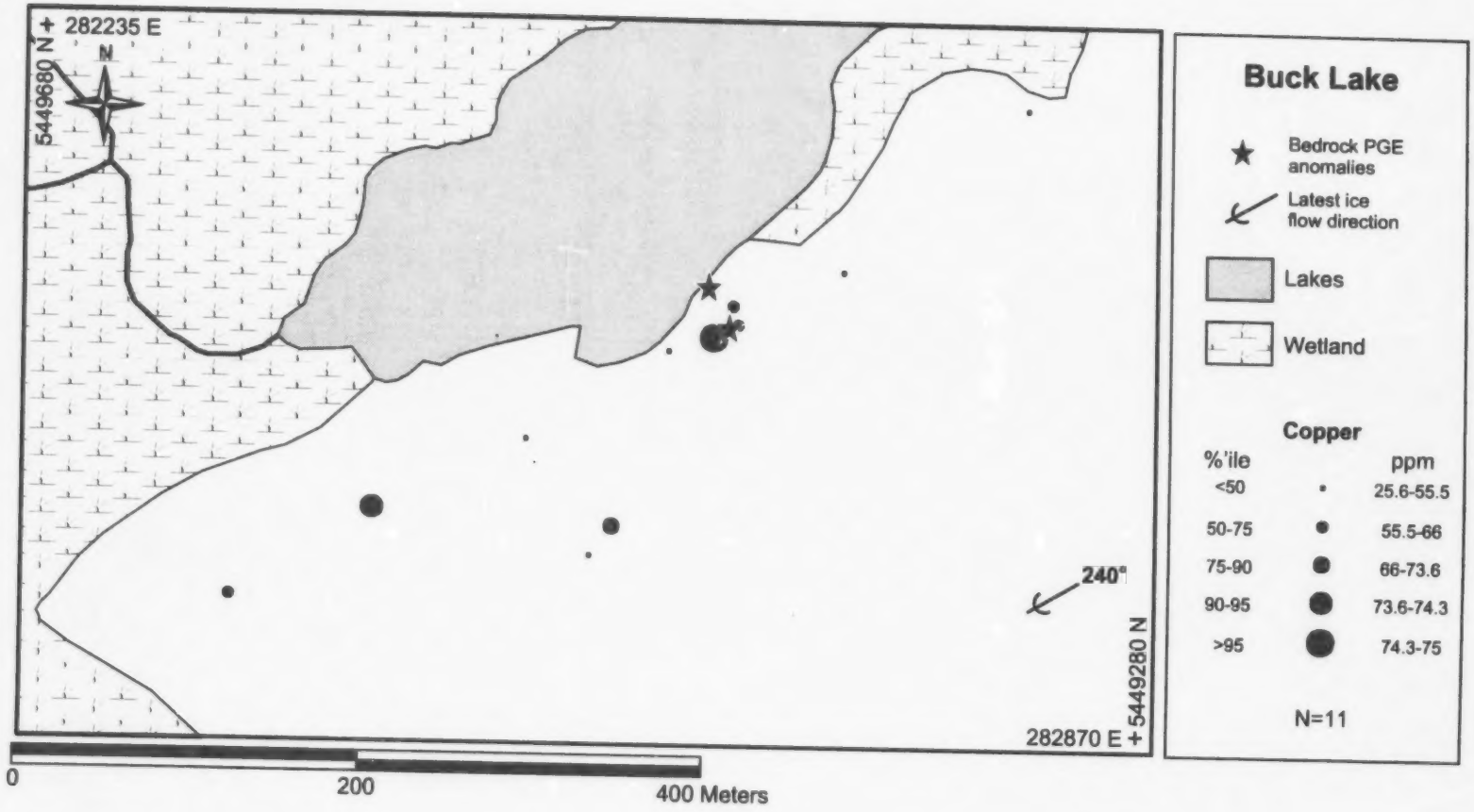
Nickel in the <63μm fraction of B-horizon.



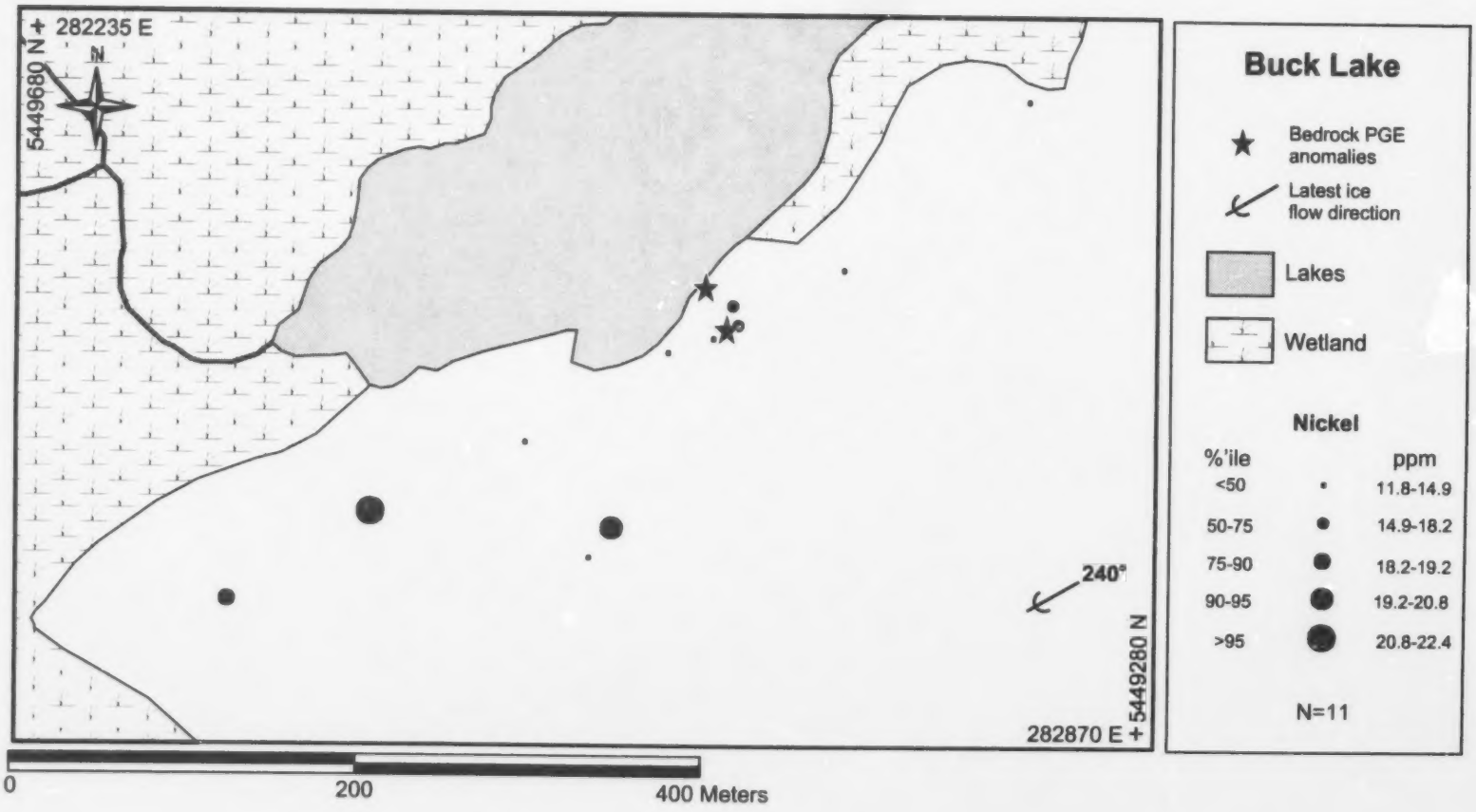
Palladium in the <63μm fraction of C-horizon till.



Platinum in the <63μm fraction of C-horizon till.



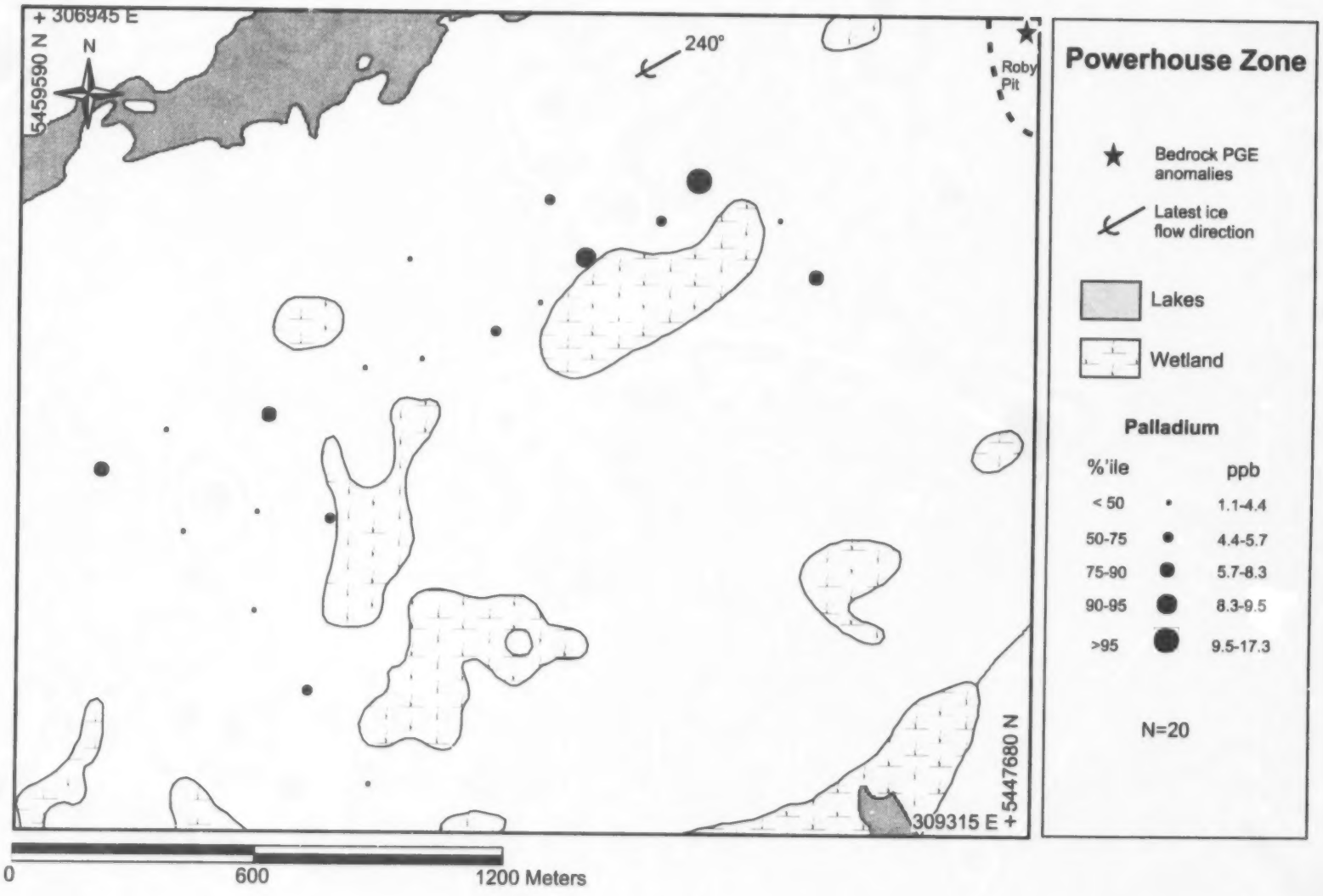
Copper in the <63μm fraction of C-horizon till.



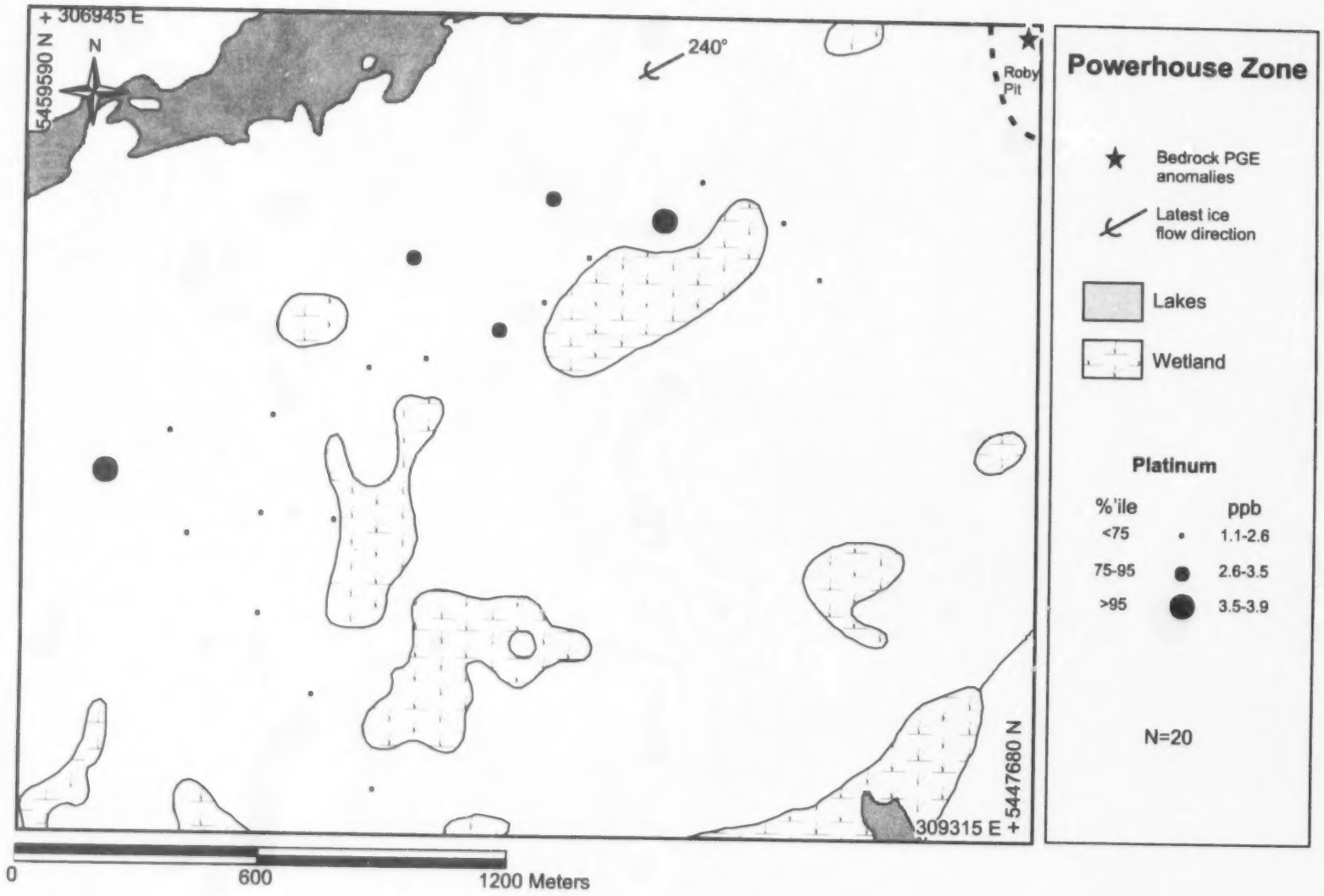
Nickel in the <63μm fraction of C-horizon till.

APPENDIX H

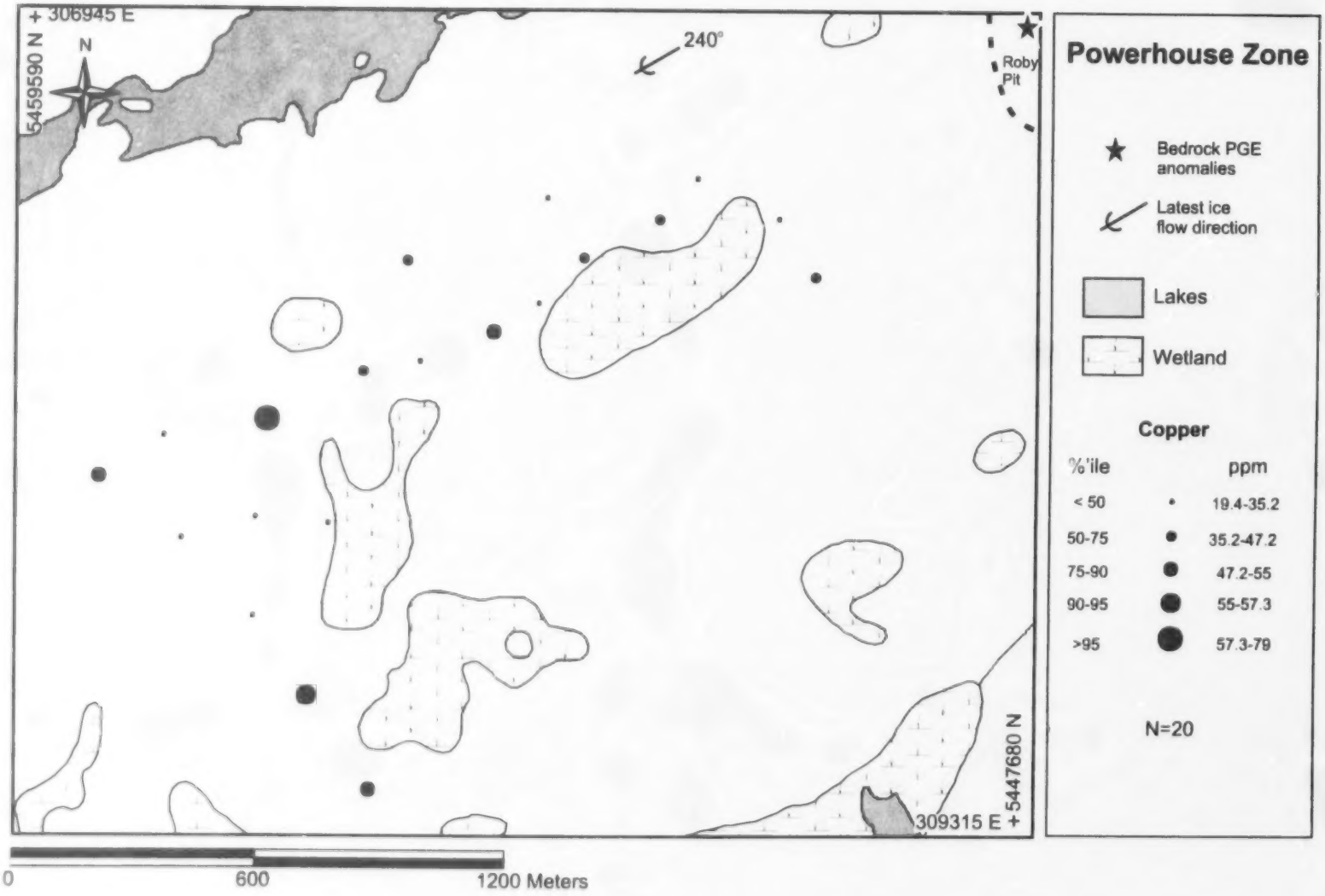
Powerhouse Zone – LDI Geochemical Plots



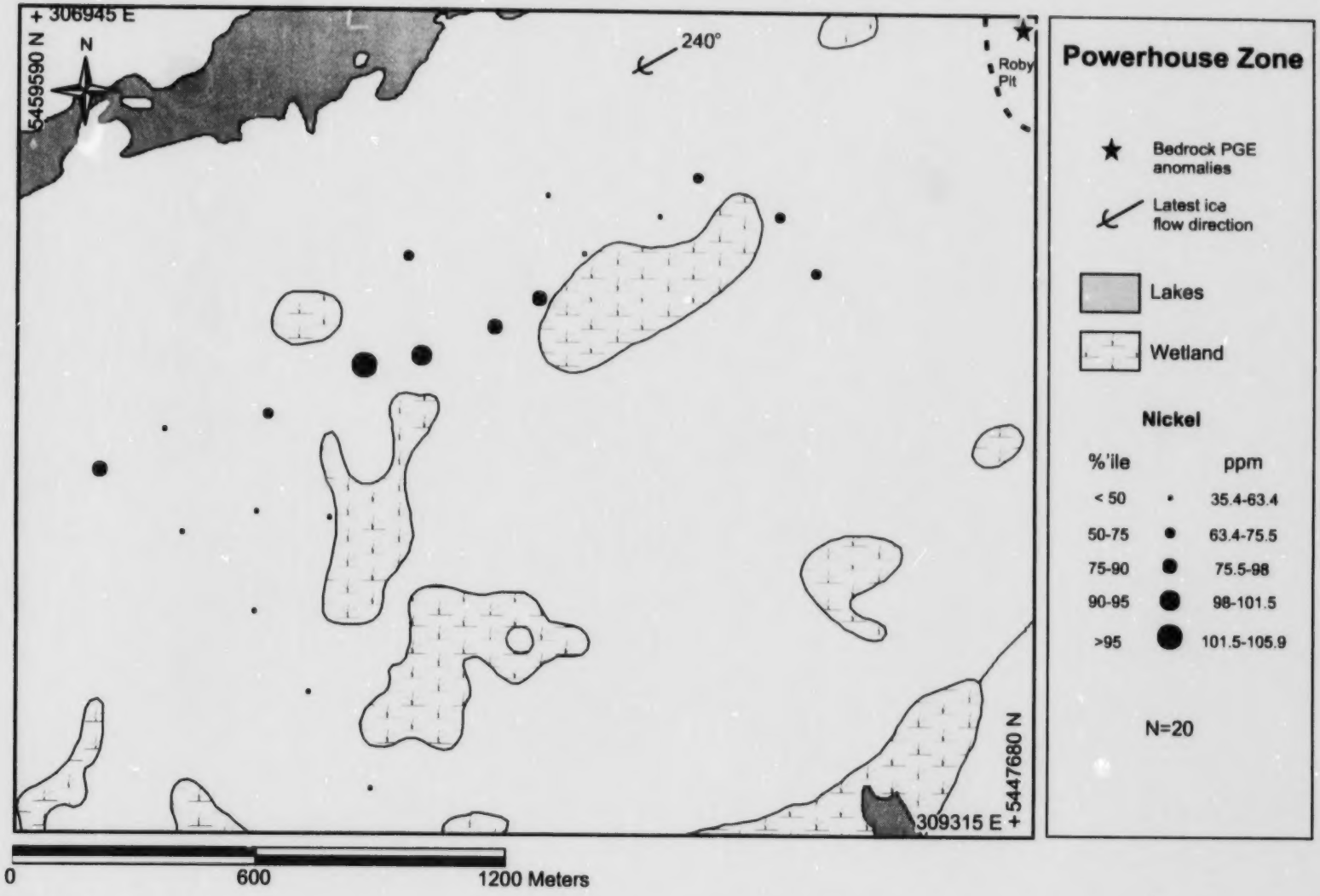
Palladium in the <63 µm fraction of B-horizon.



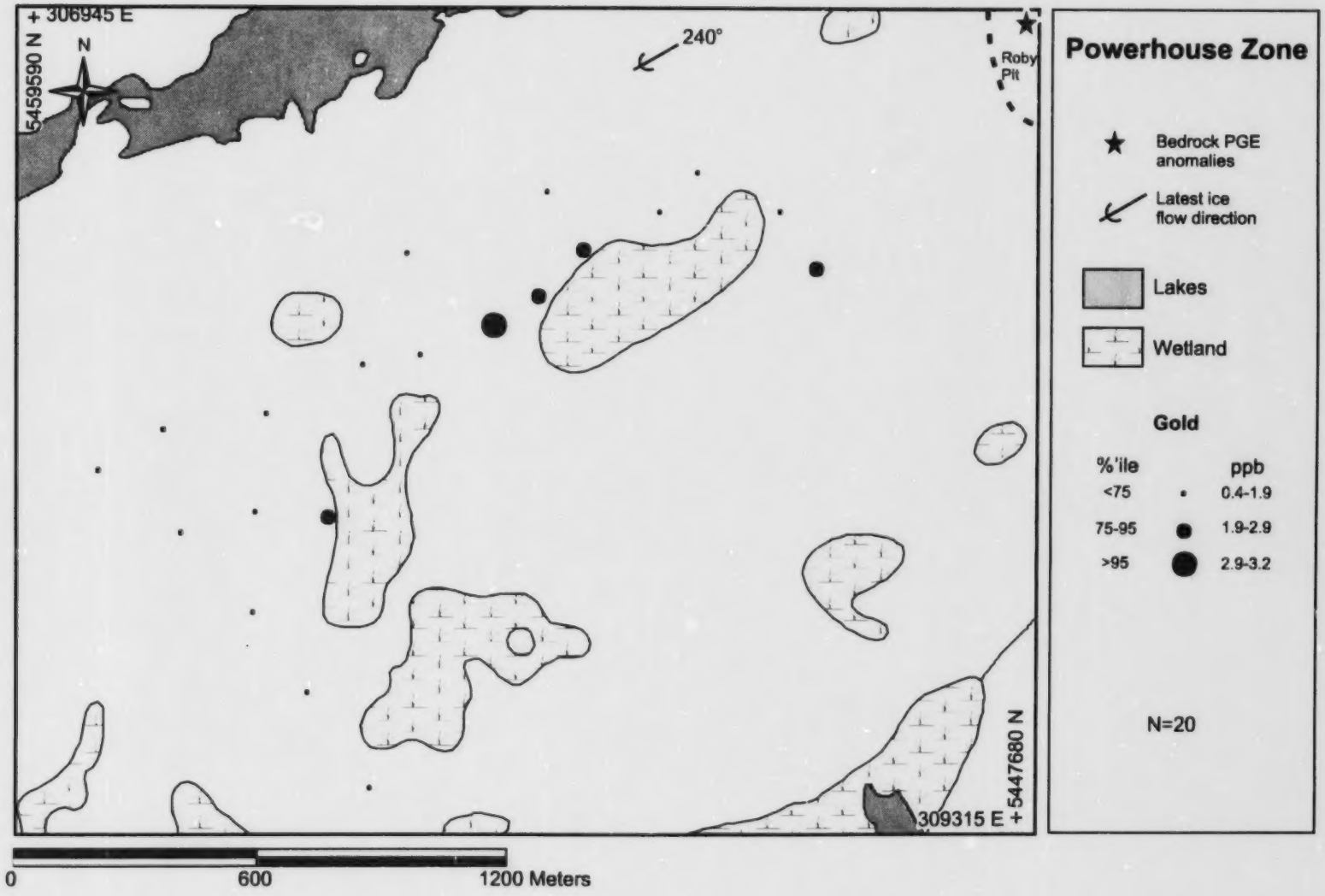
Platinum in the <63μm fraction of B-horizon.



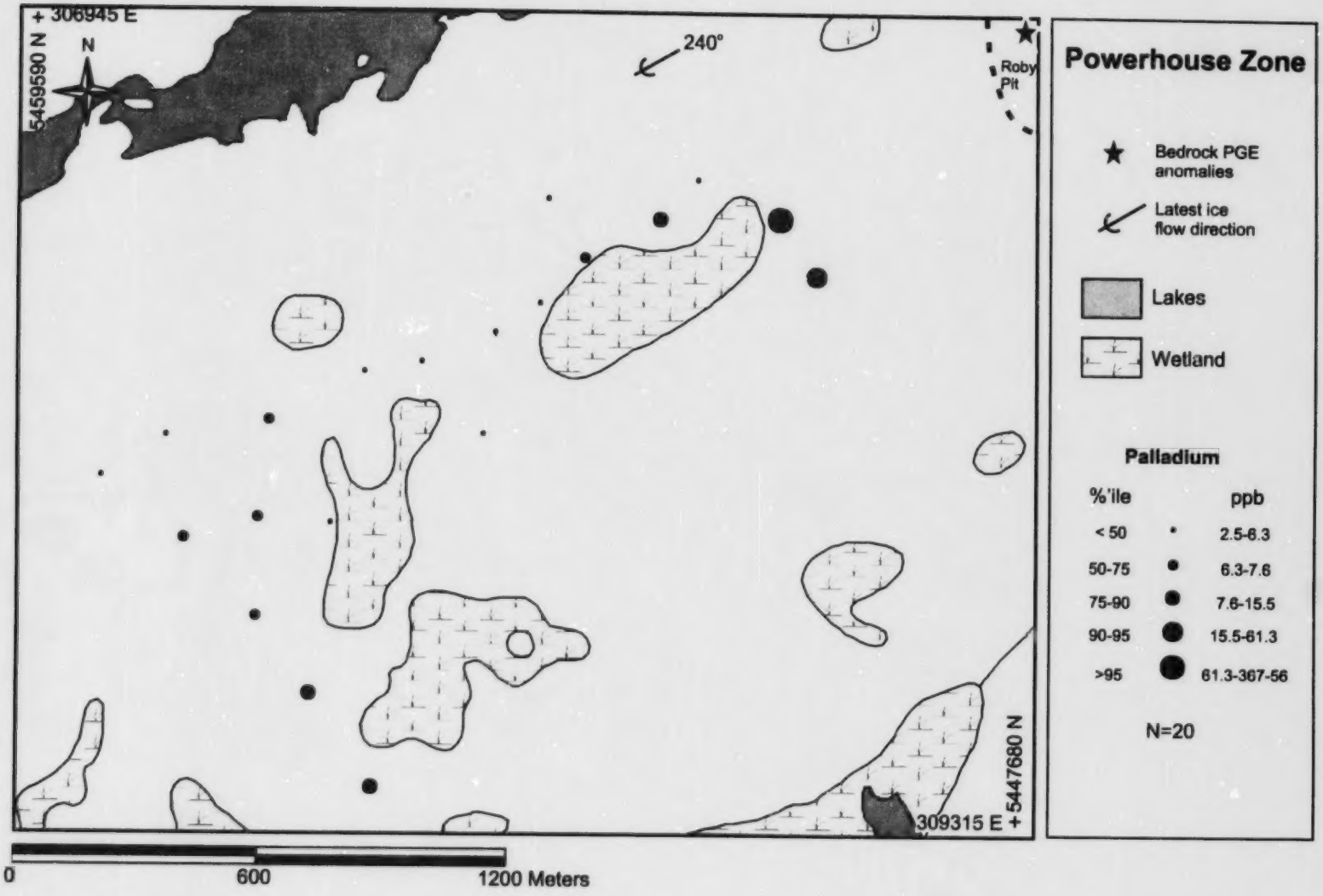
Copper in the <63μm fraction of B-horizon.



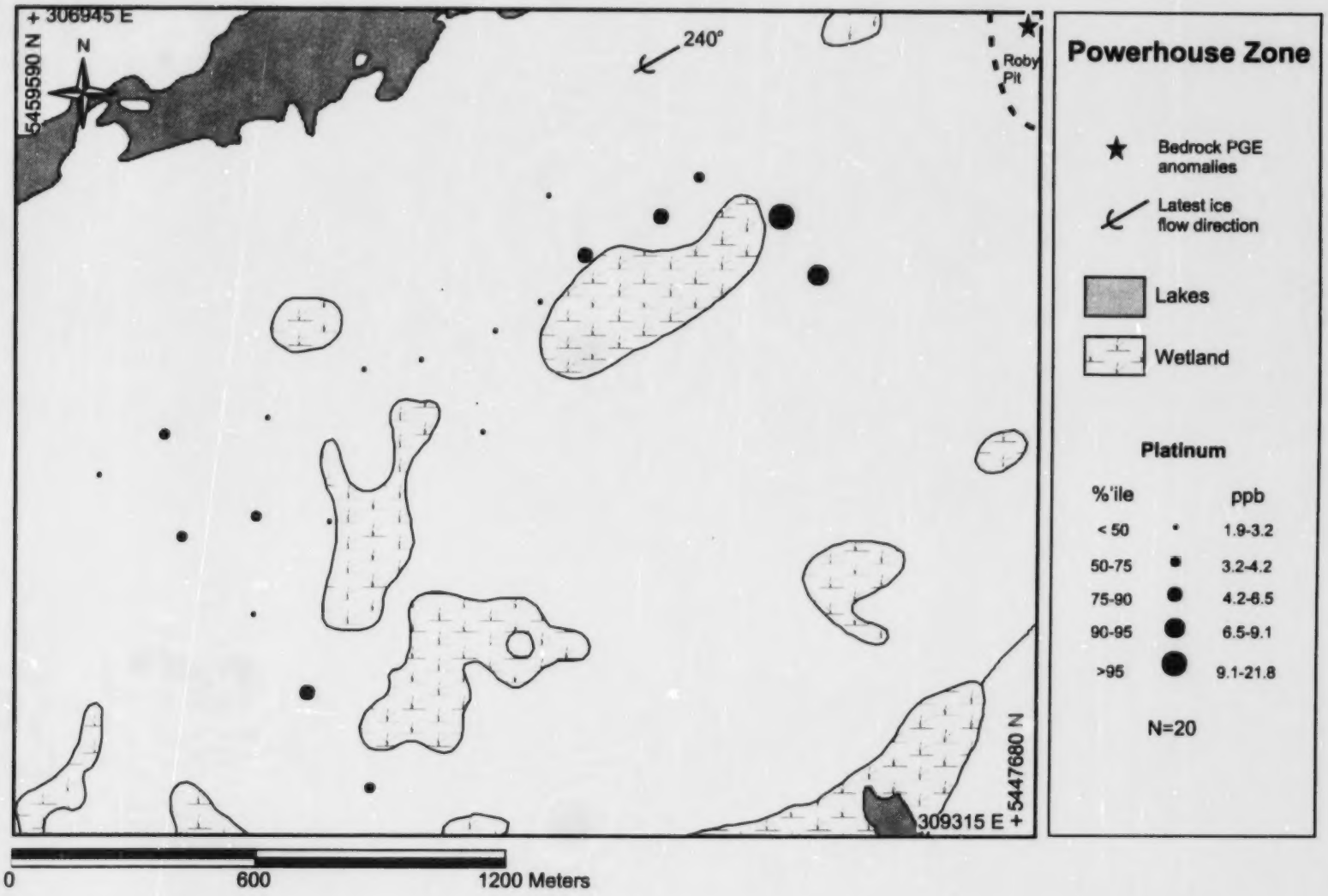
Nickel in the <63μm fraction of B-horizon.



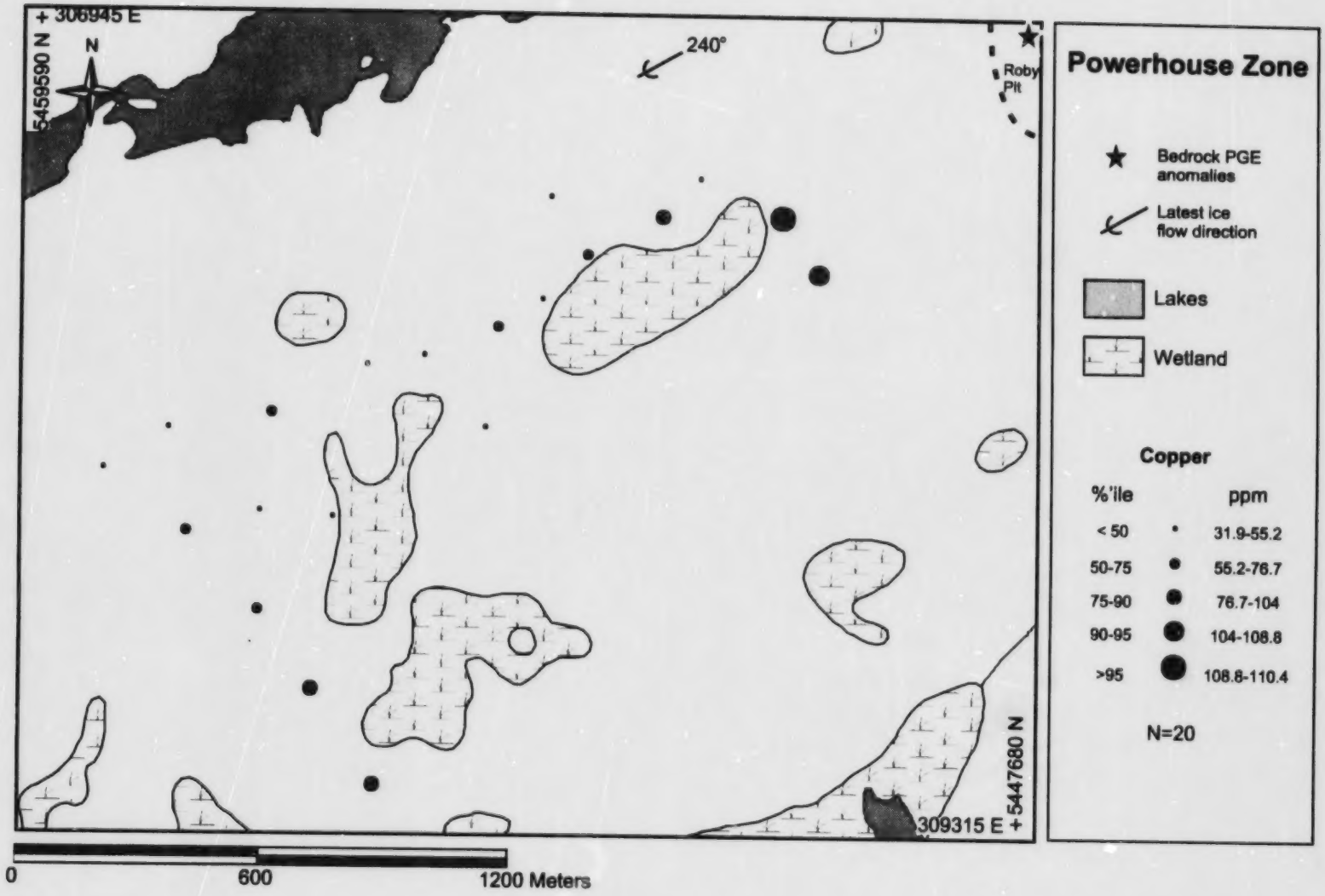
Gold in the <63μm fraction of B-horizon.



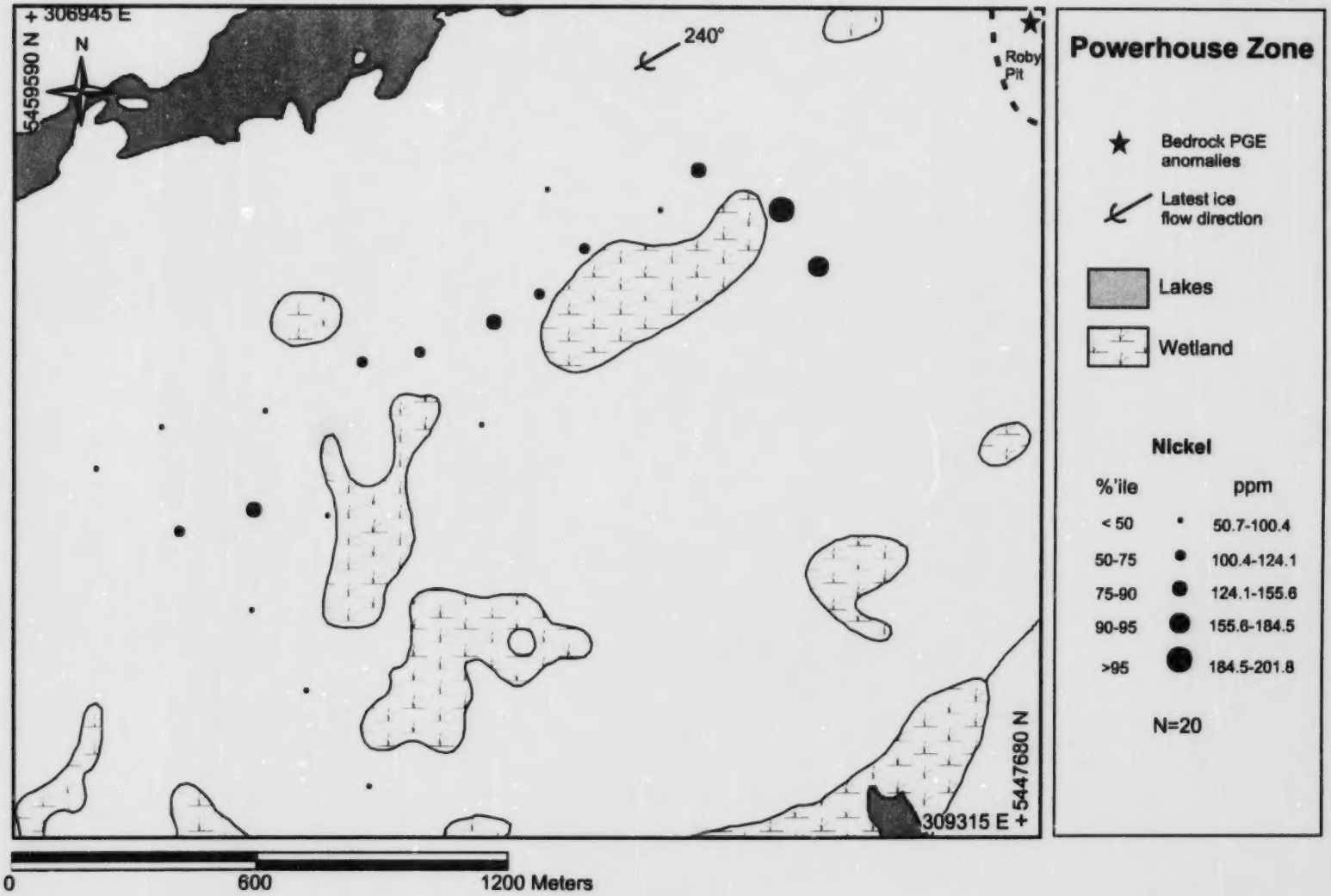
Palladium in the <63μm fraction of C-horizon till.



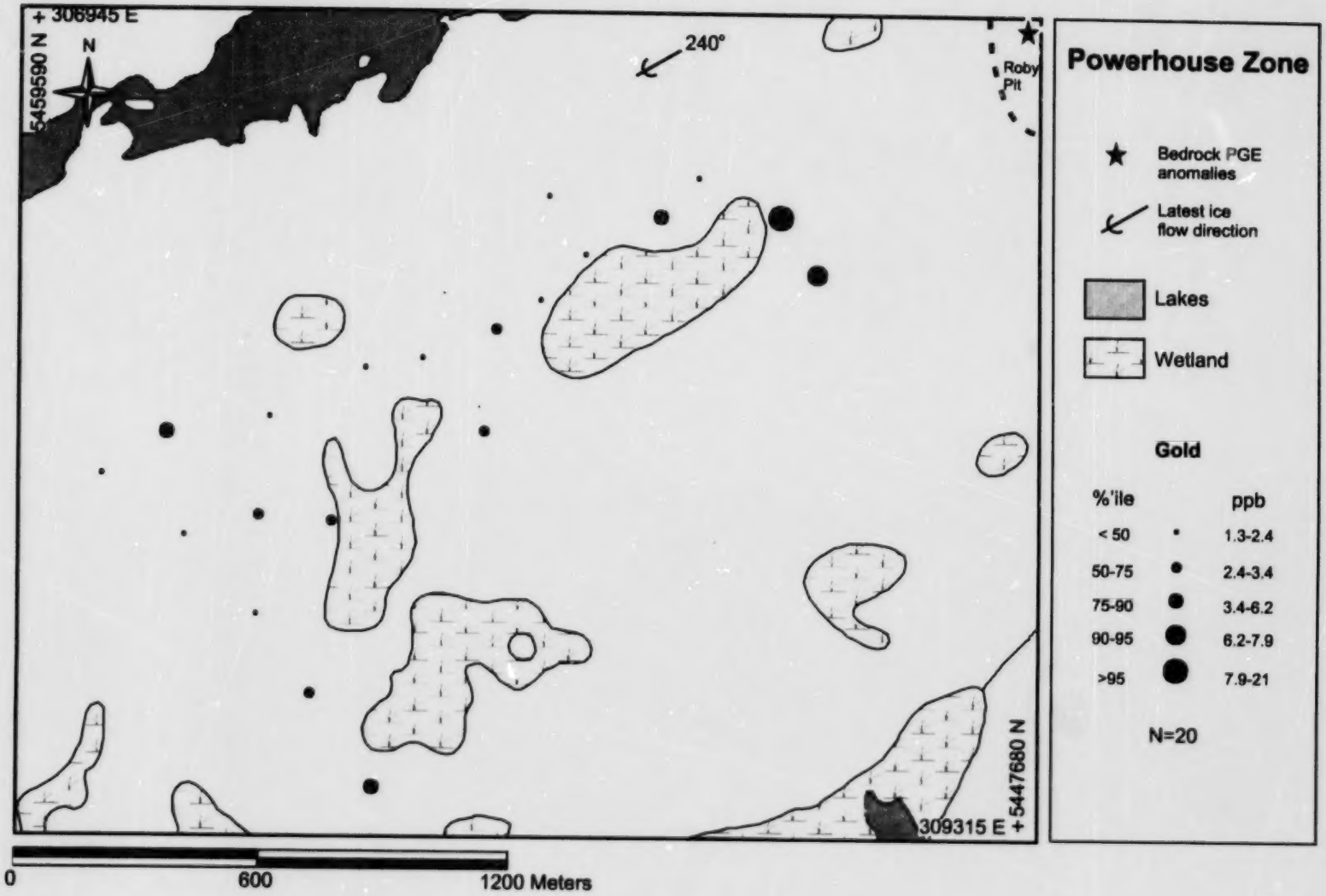
Platinum in the <63μm fraction of C-horizon till.



Copper in the <63μm fraction of C-horizon till.



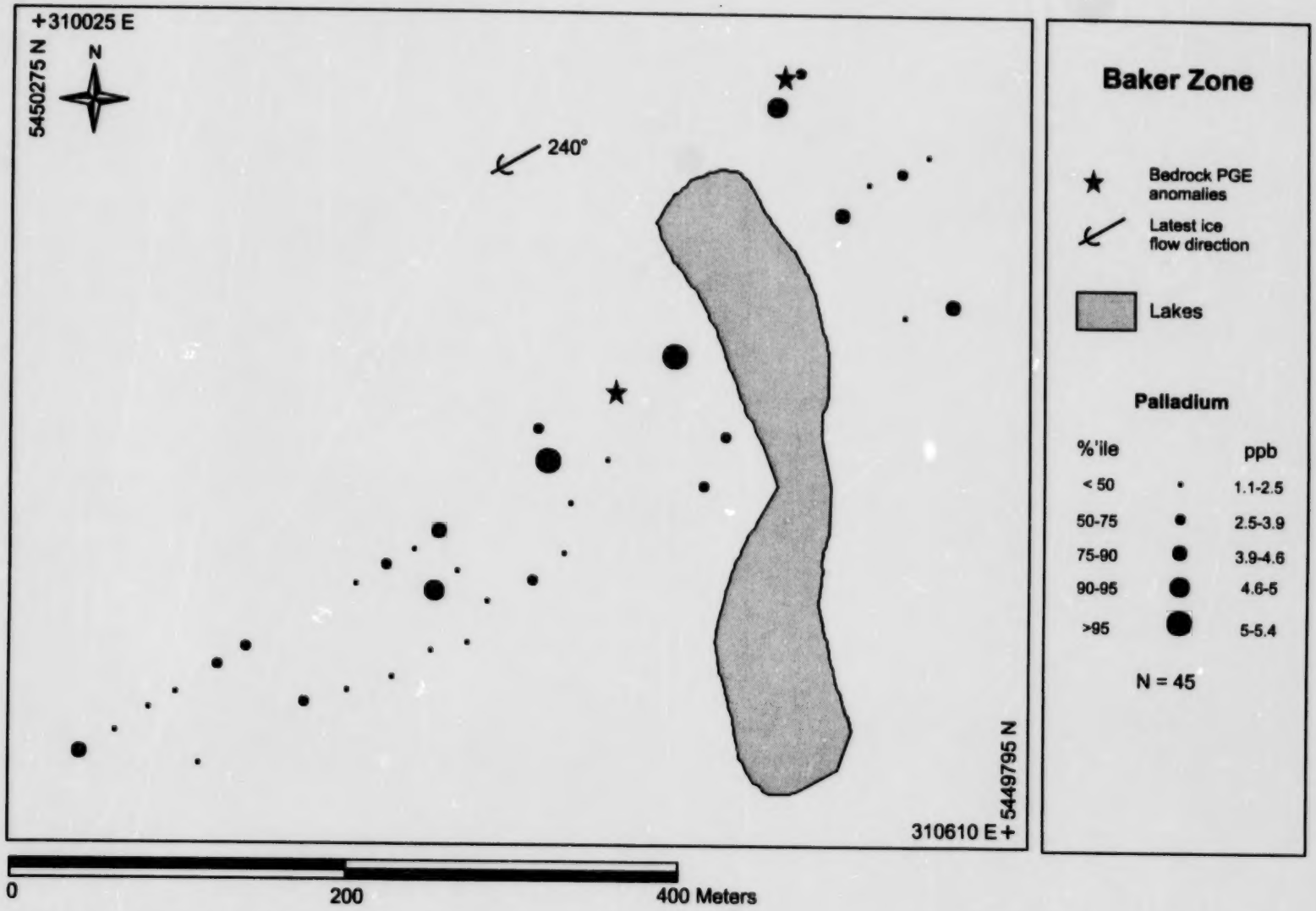
Nickel in the <63μm fraction of C-horizon till.



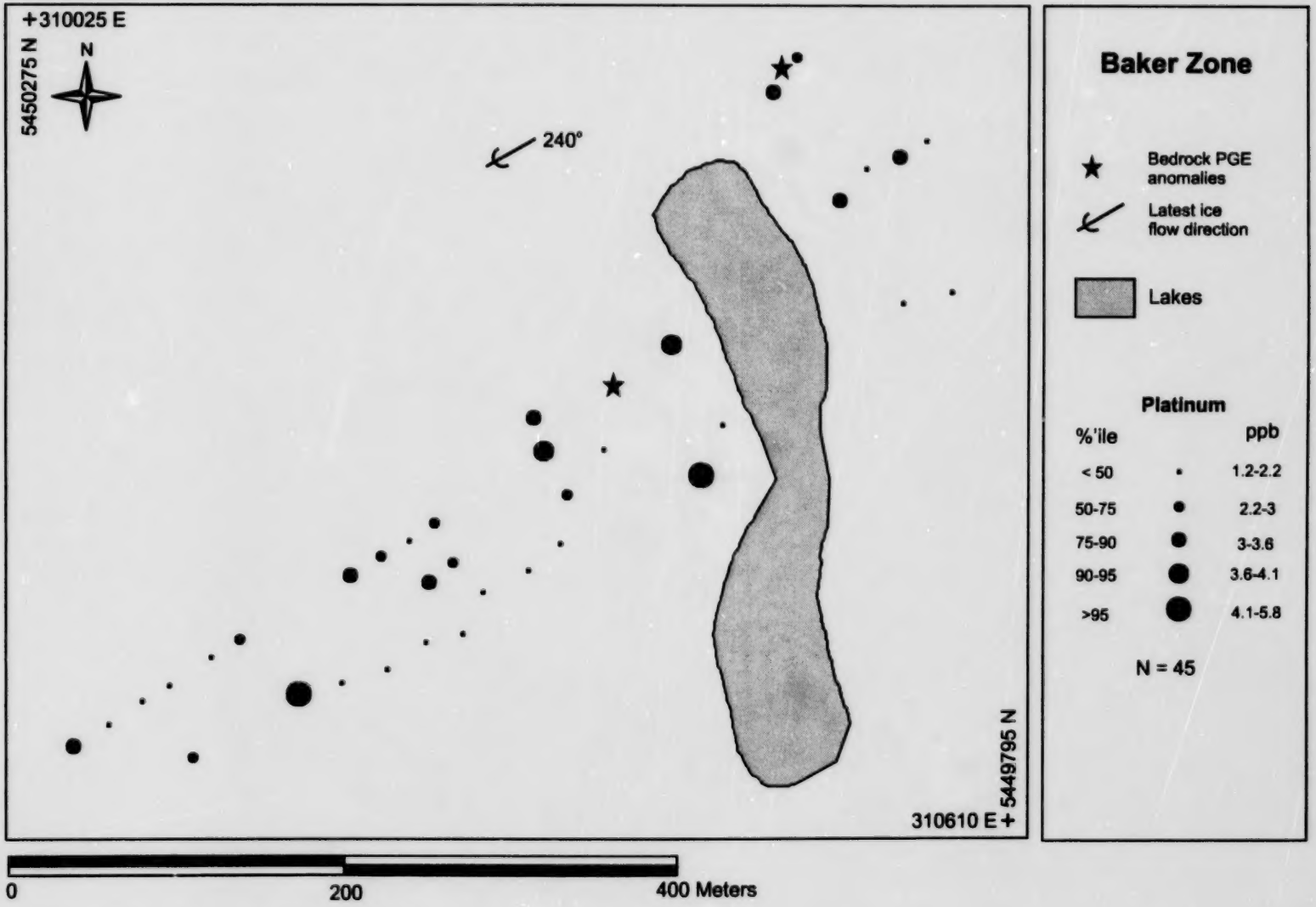
Gold in the <63μm fraction of C-horizon till.

APPENDIX I

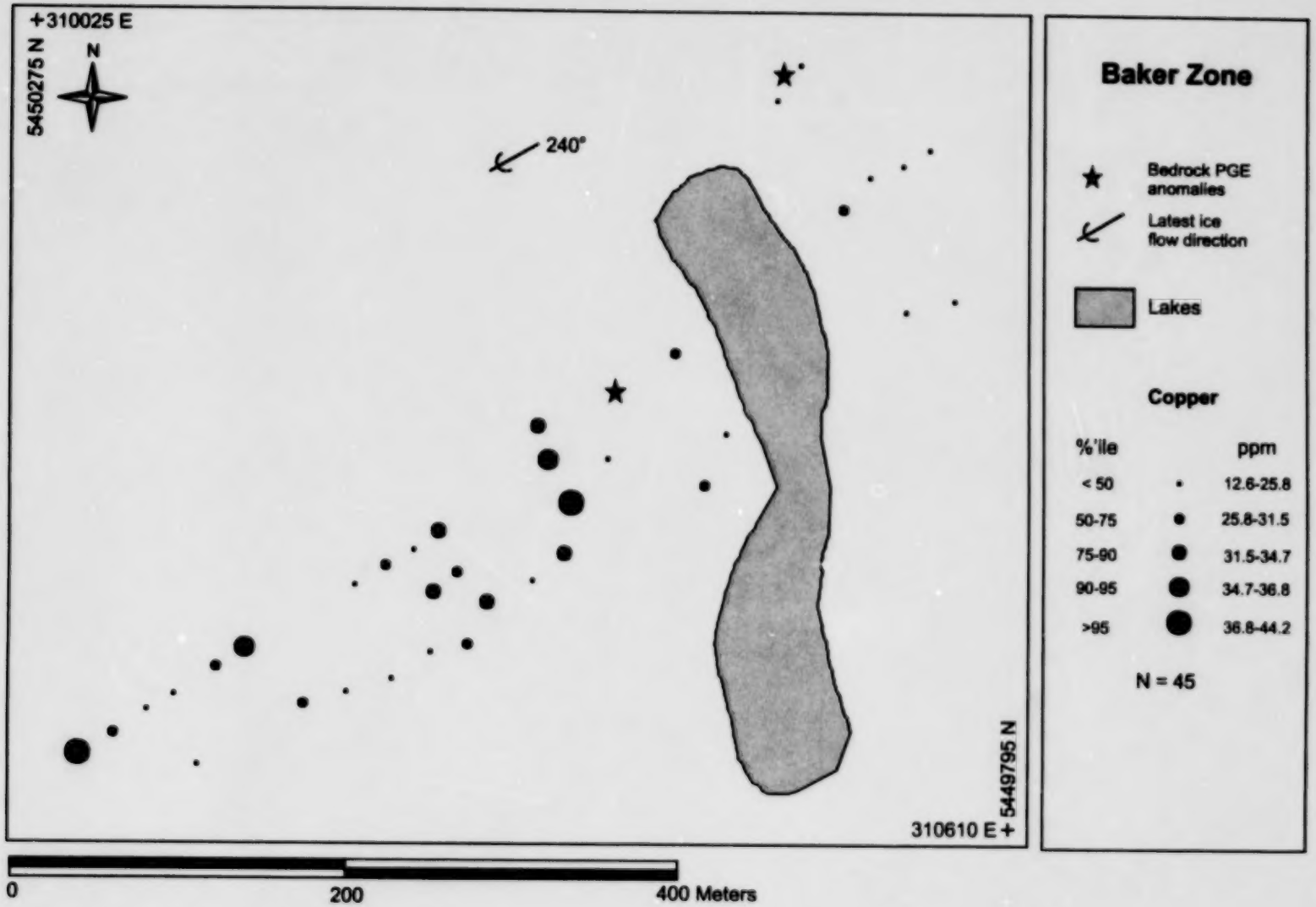
Baker Zone – LDI Geochemical Plots



Palladium in the <63 μm fraction of B-horizon.

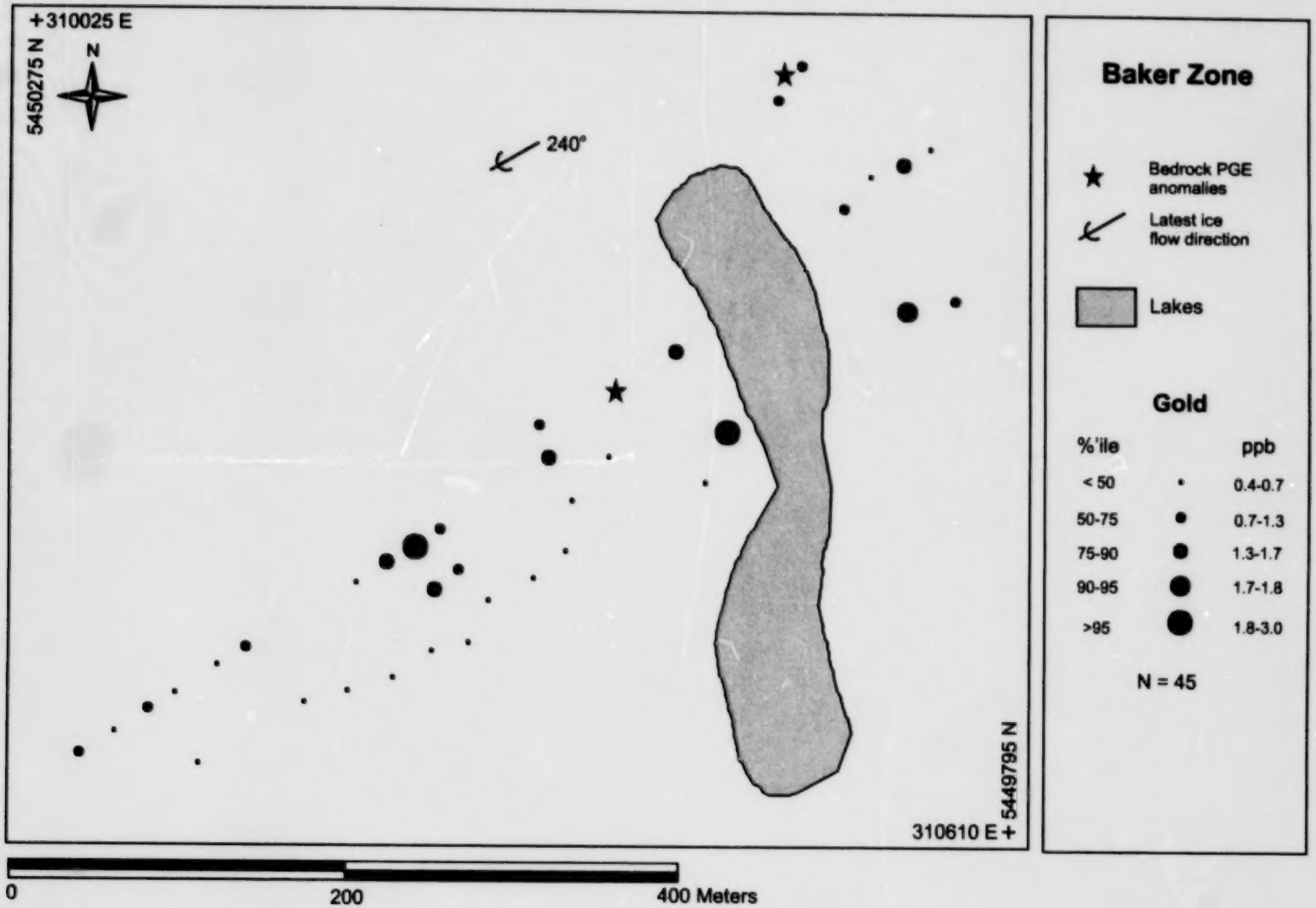


Platinum in the <63 μm fraction of B-horizon.

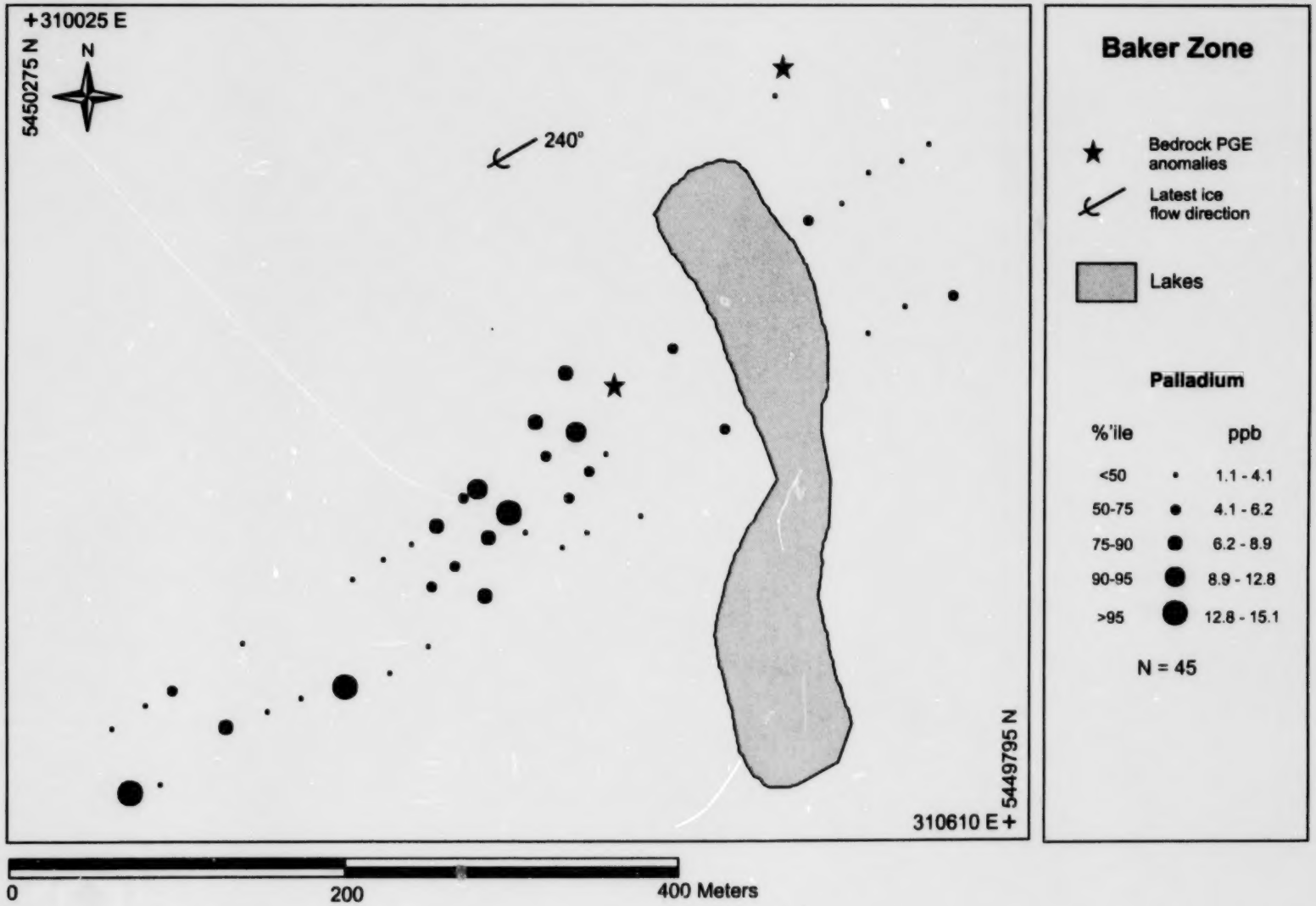


Copper in the <63 μm fraction of B-horizon.

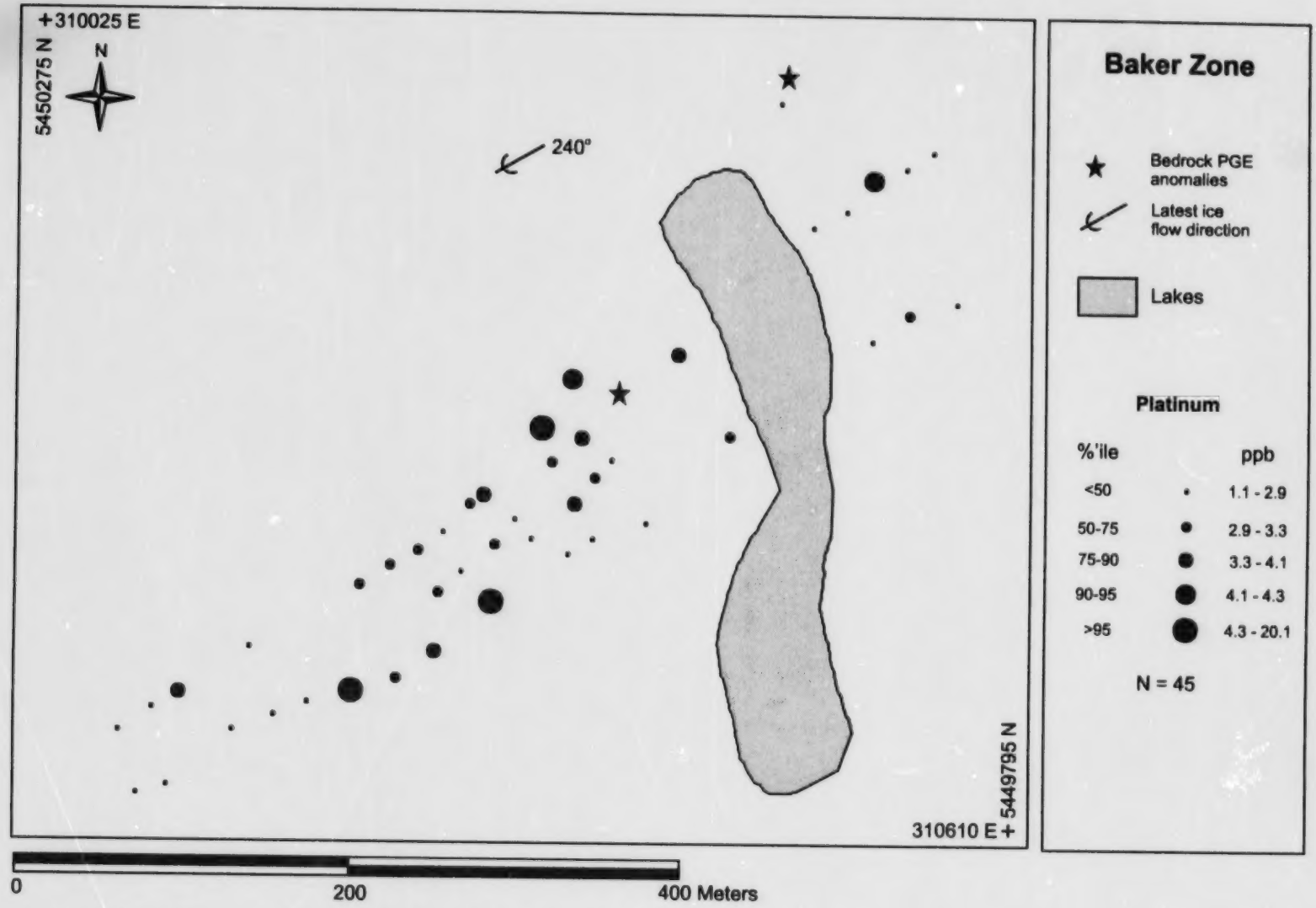
Nickel in the <63 μm fraction of B-horizon.



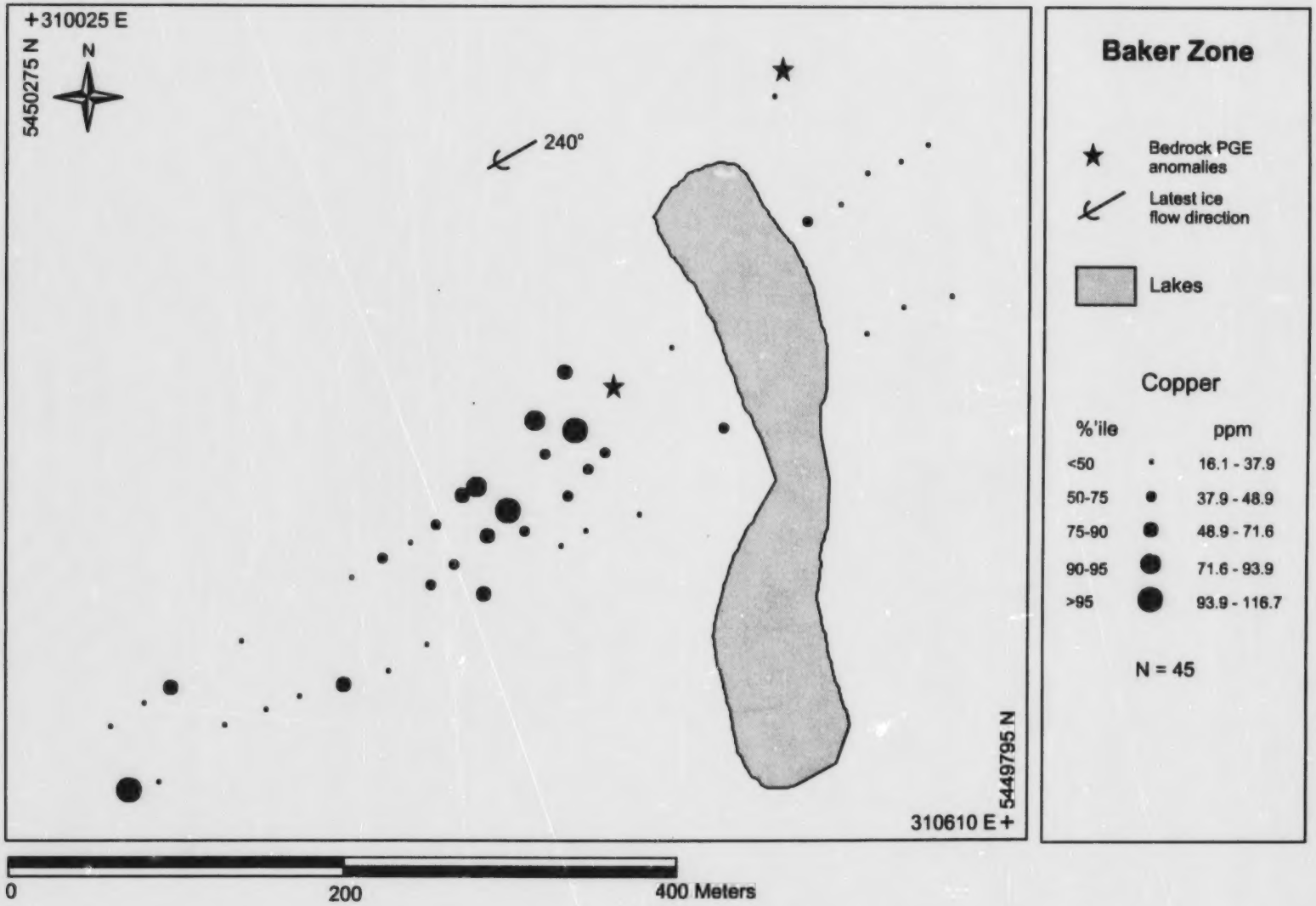
Gold in the <63 μm fraction of B-horizon.



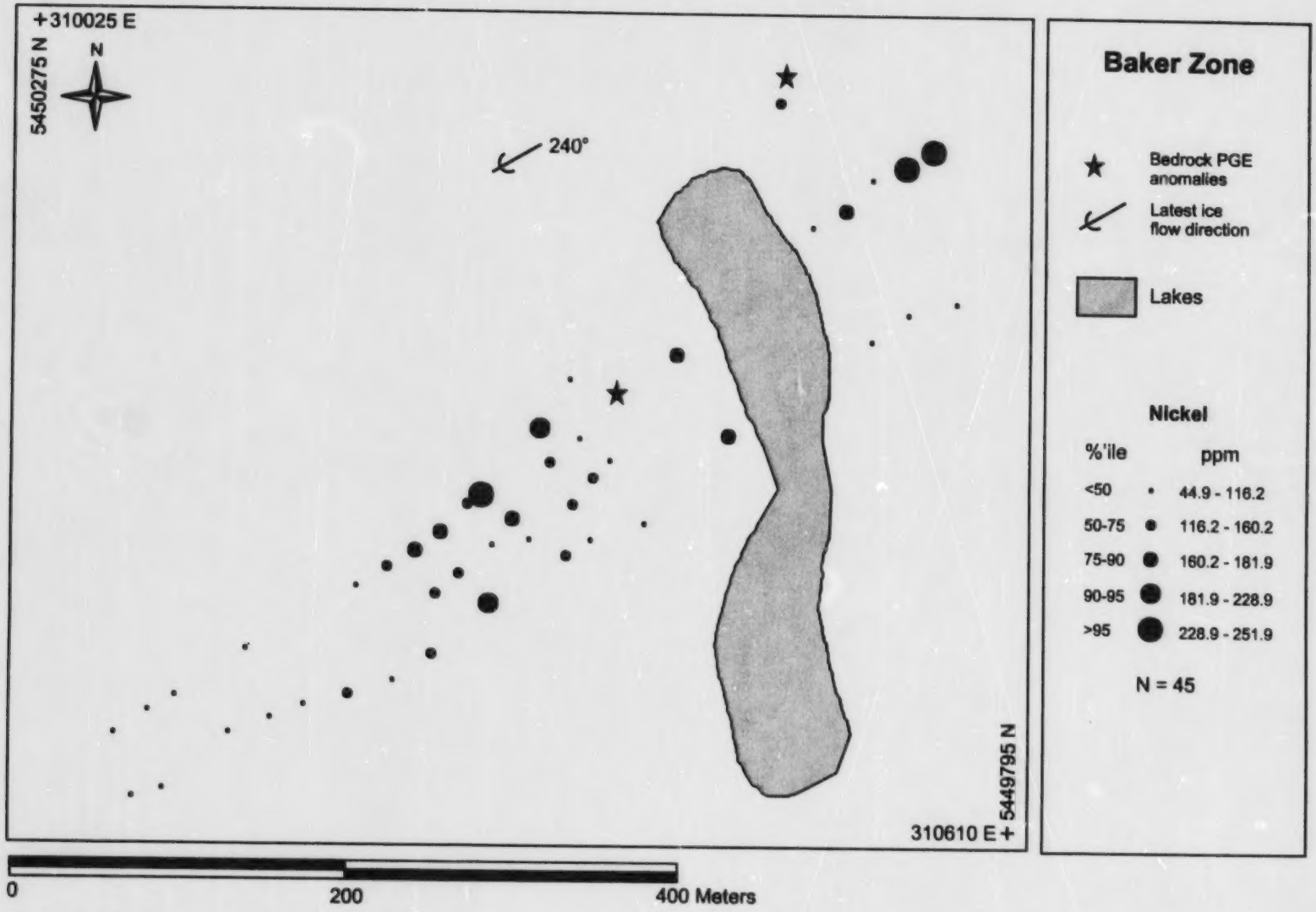
Palladium in the <63 μm fraction of C-horizon till.



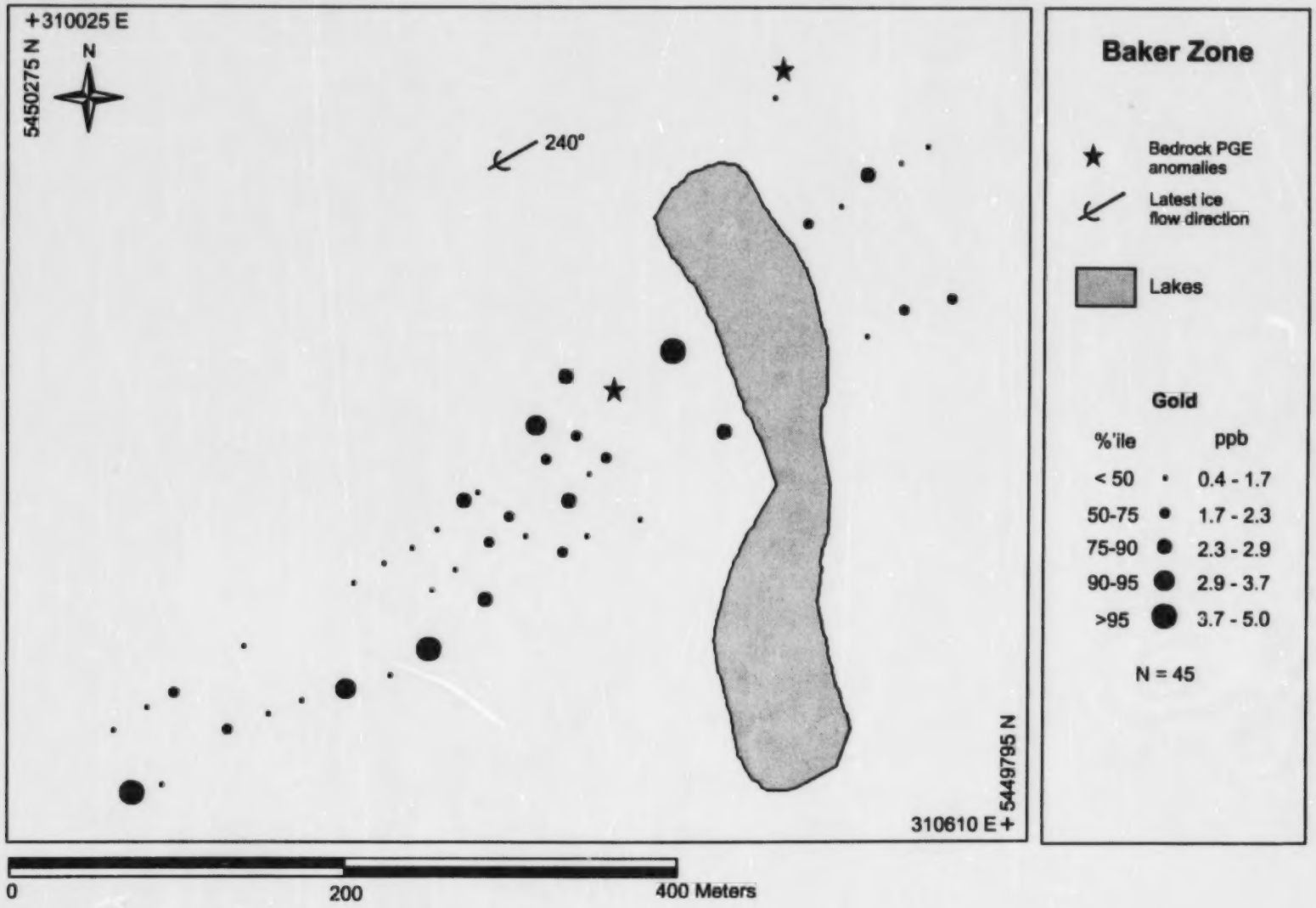
Platinum in the <63 μm fraction of C-horizon till.



Copper in the <63 μm fraction of C-horizon till.



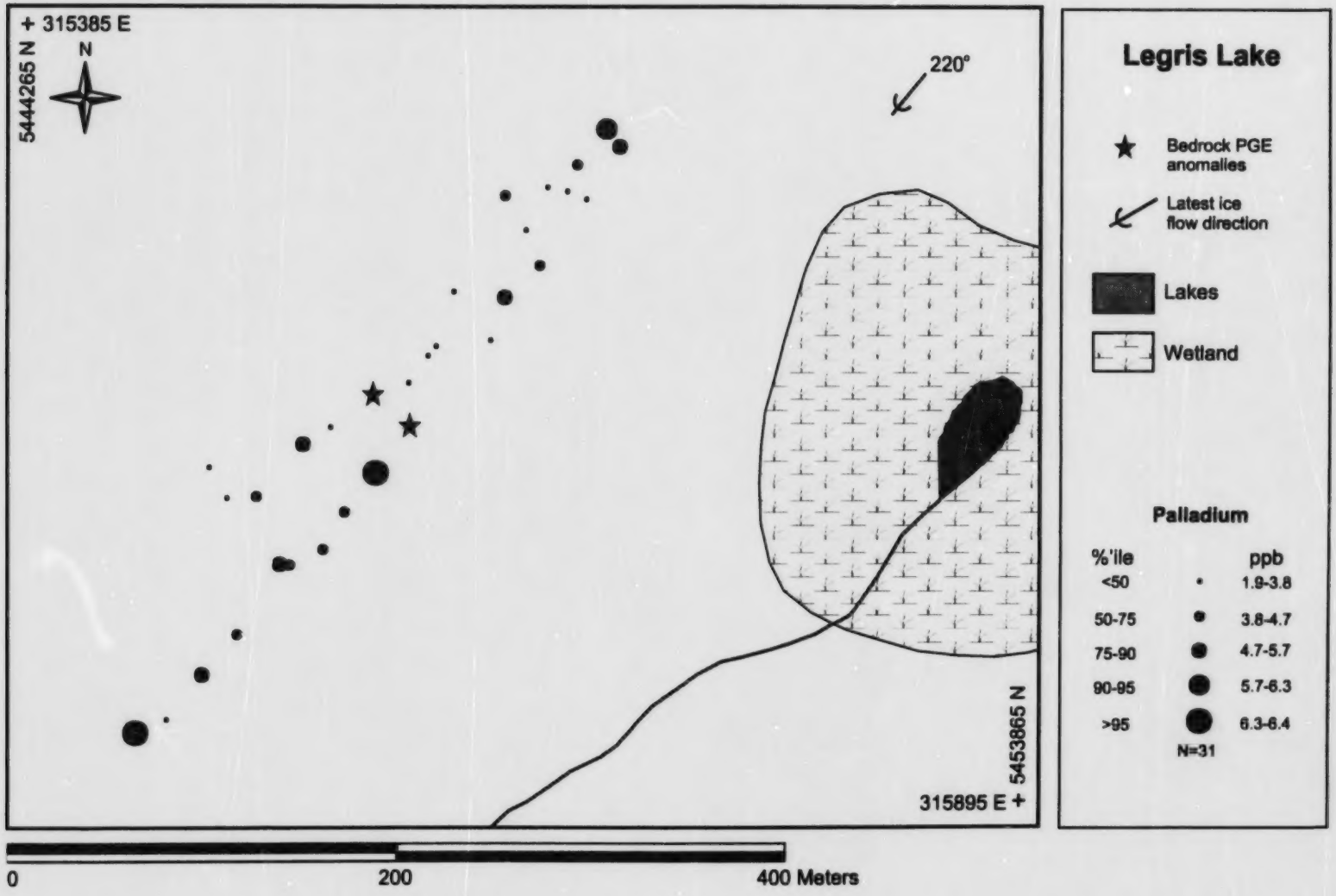
Nickel in the <63 μm fraction of C-horizon till.



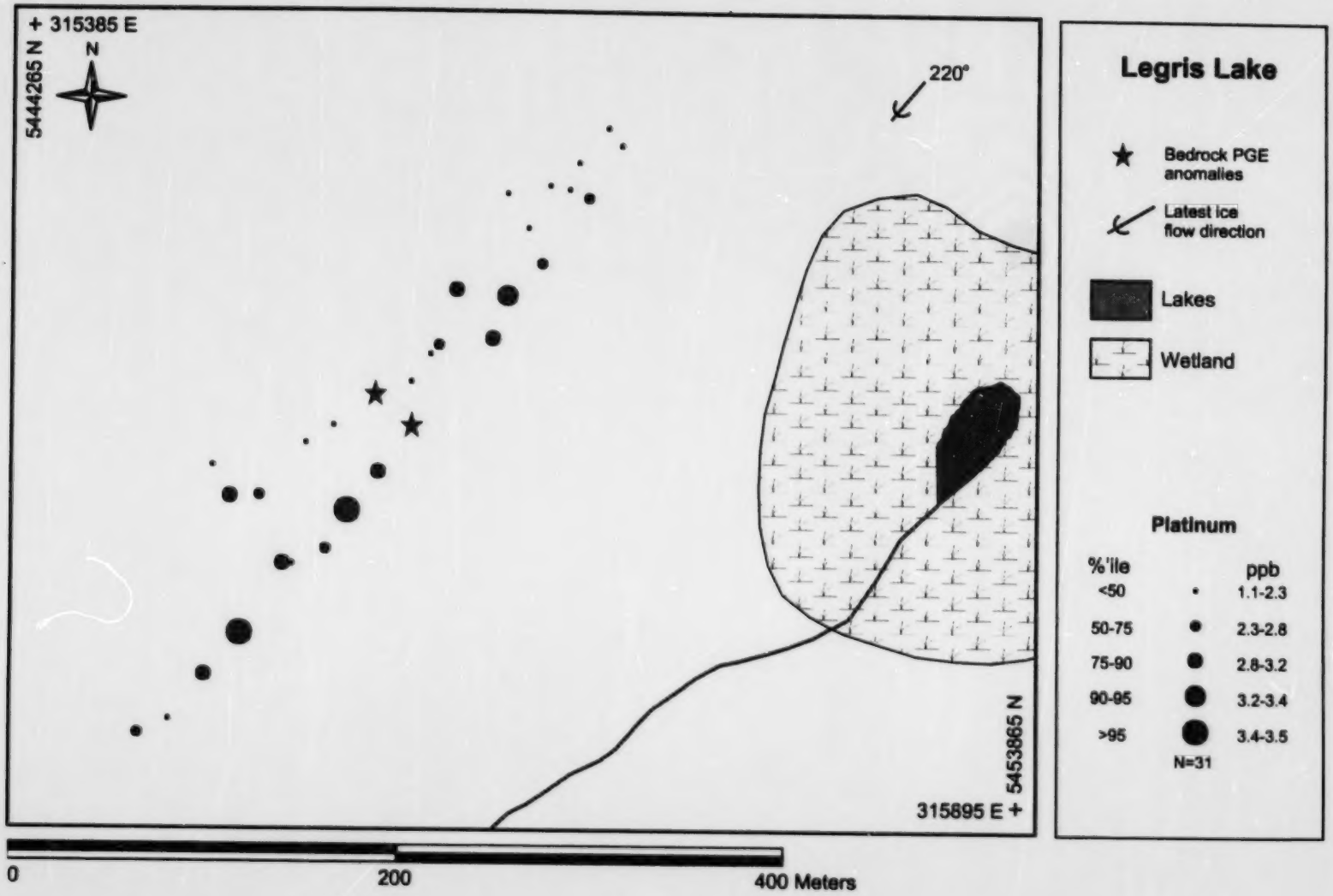
Gold in the <63 μm fraction of C-horizon till.

APPENDIX J

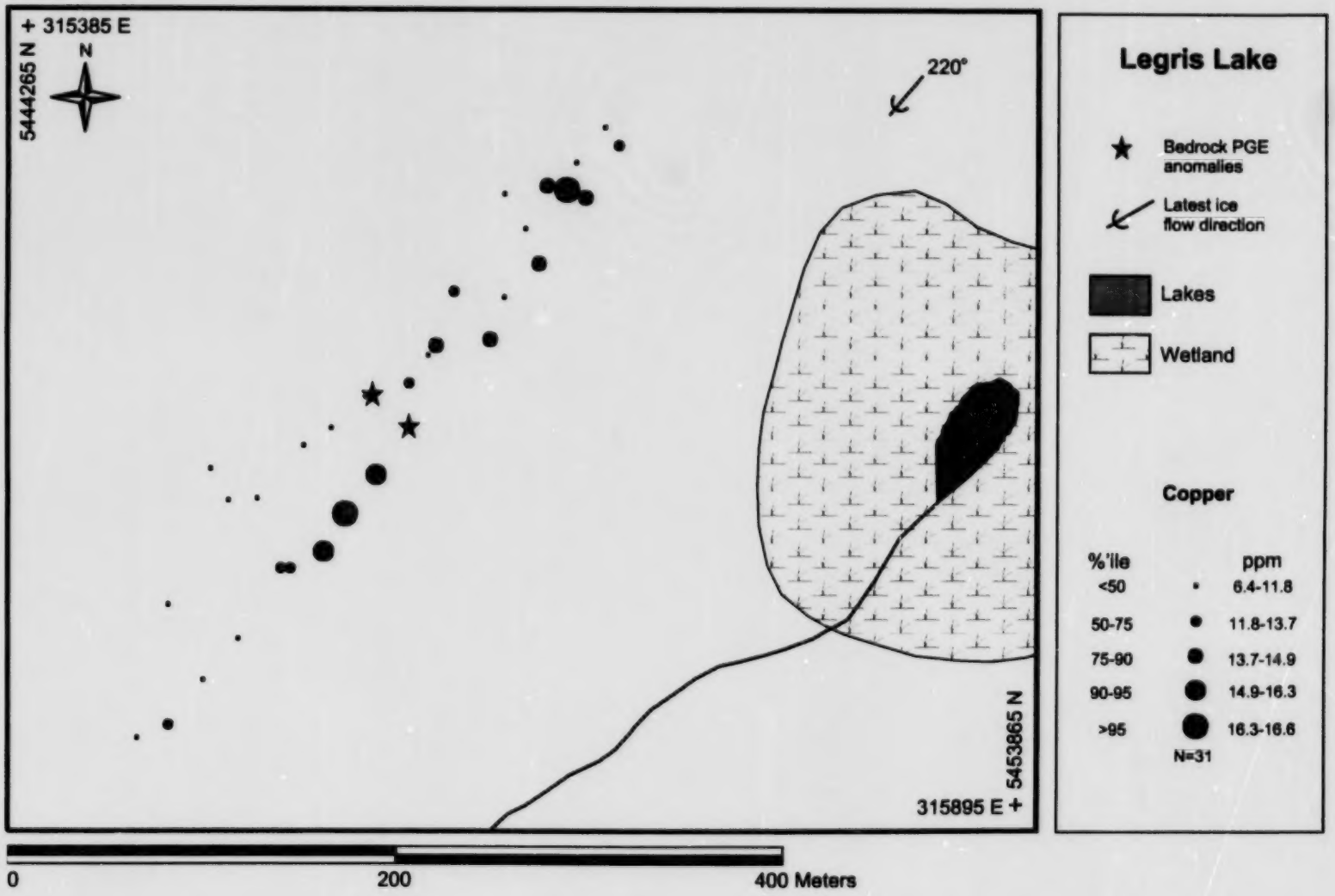
Legris Lake Geochemical Plots



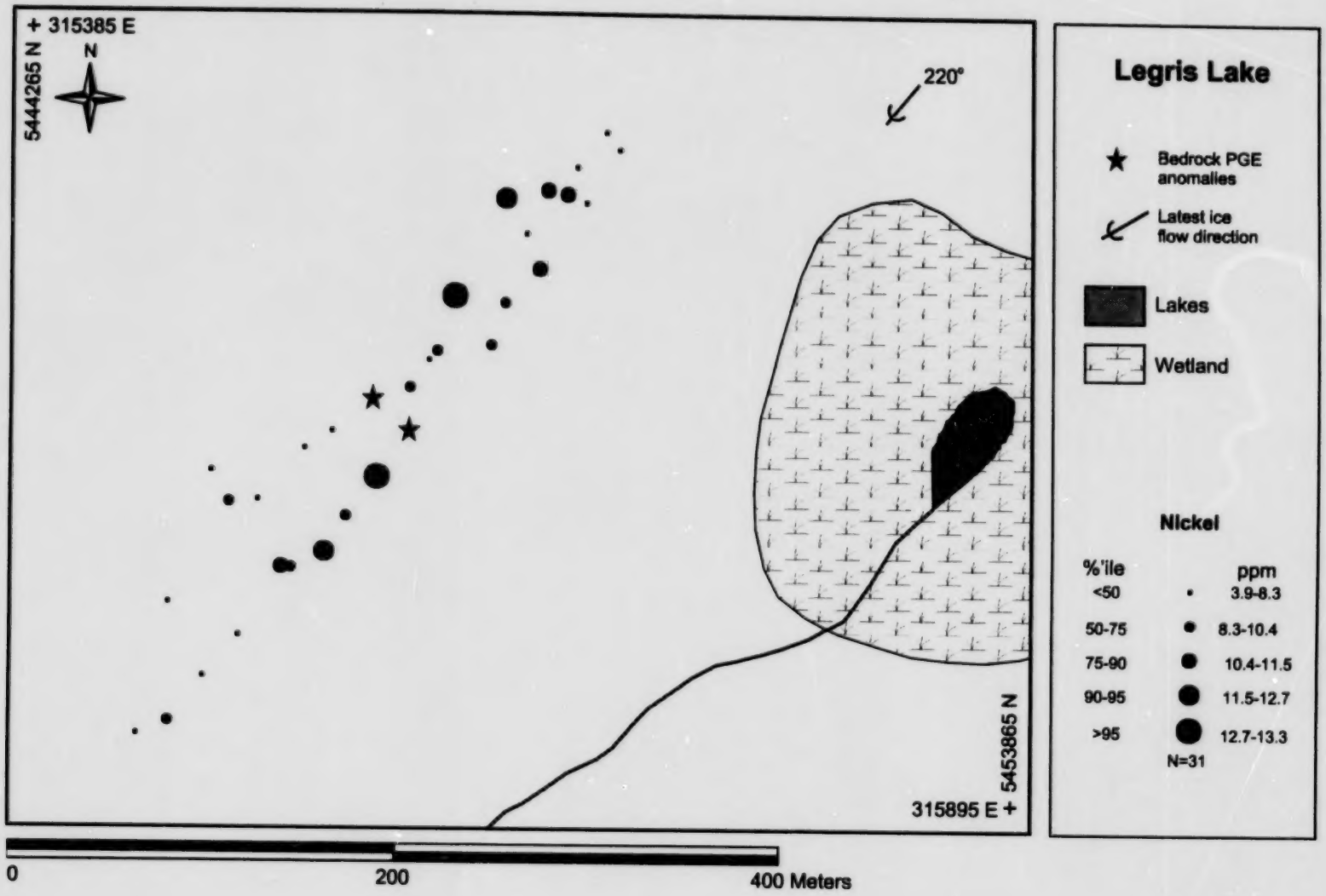
Palladium in the <177μm fraction of humus.



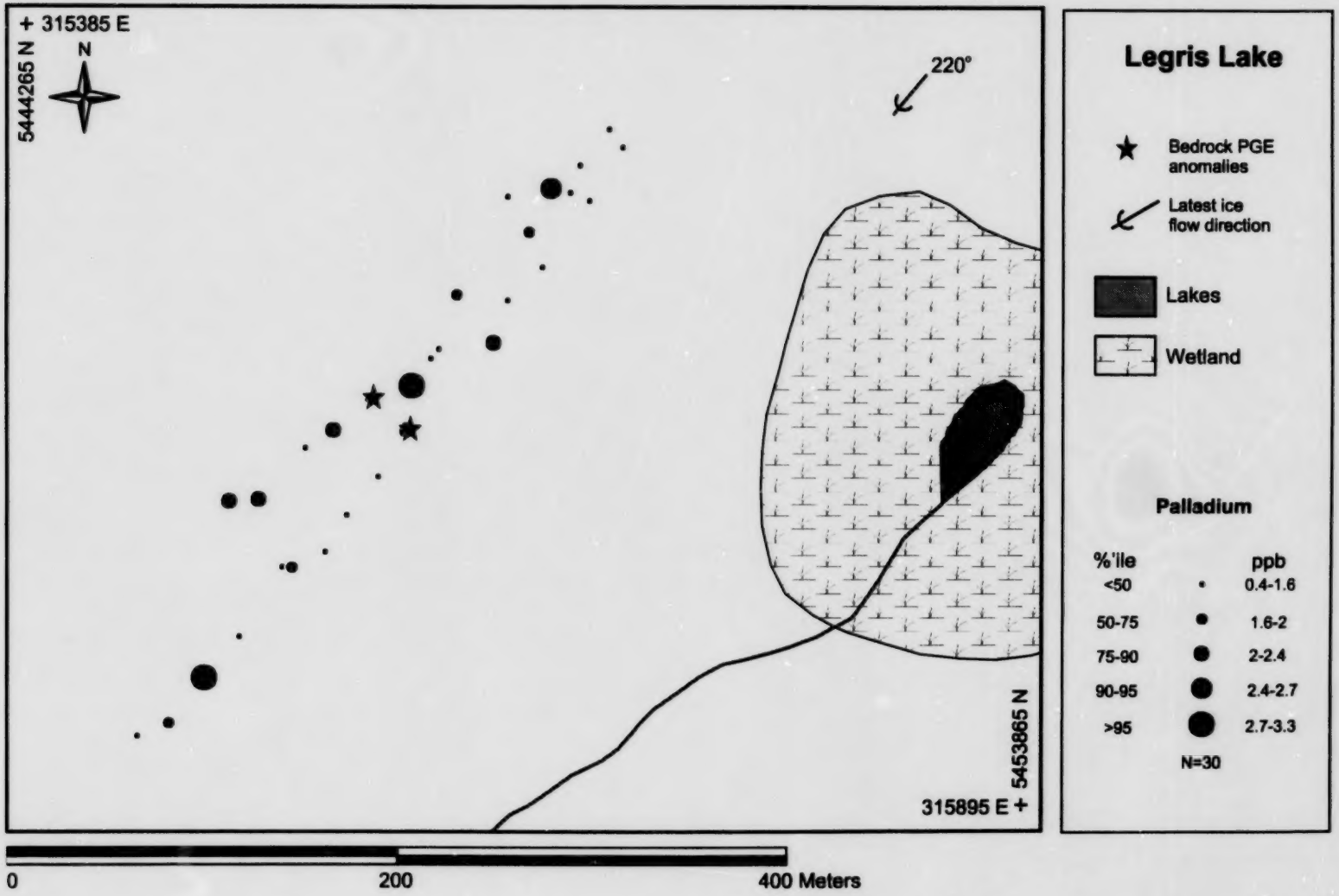
Platinum in the <177μm fraction of humus.



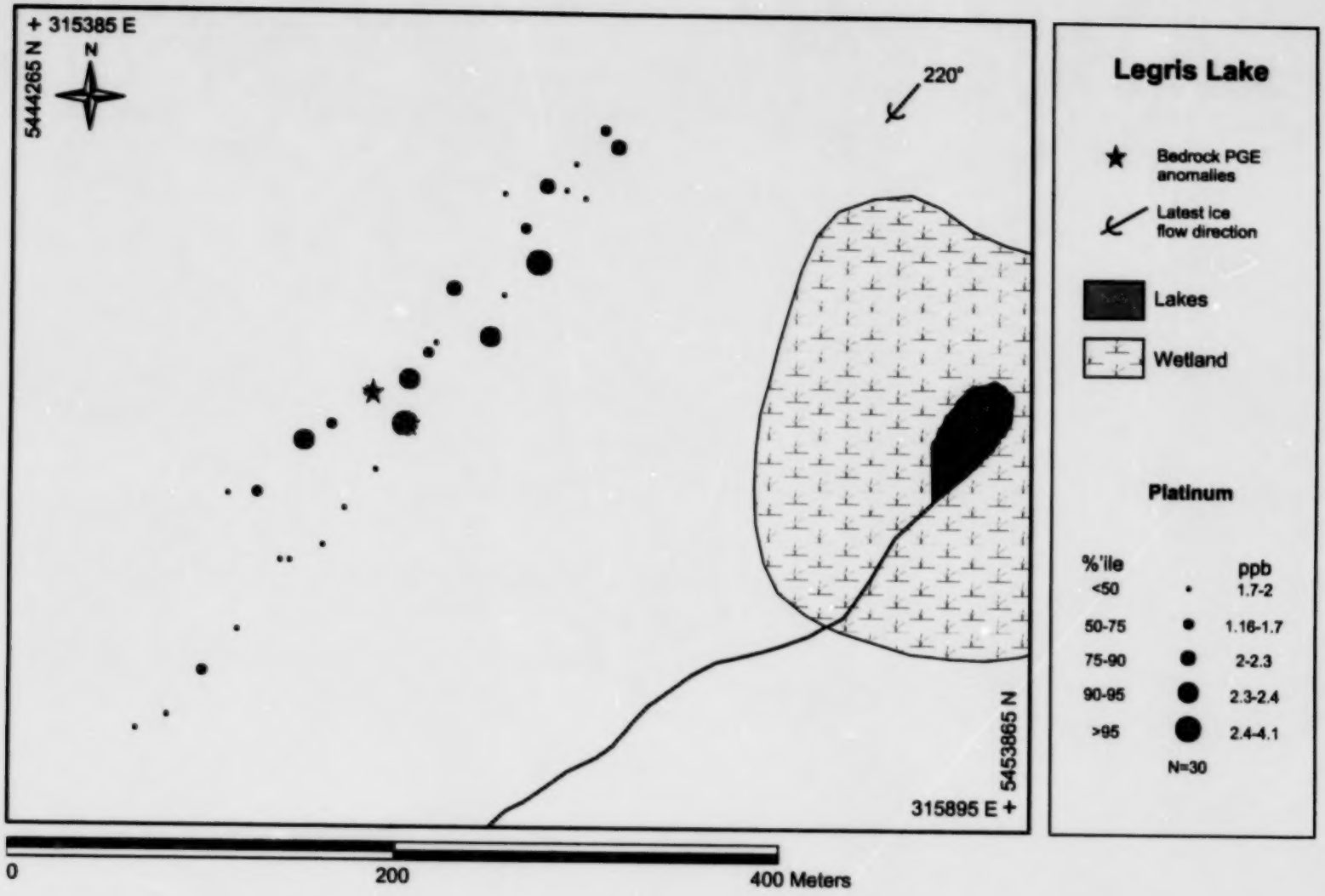
Copper in the <177μm fraction of humus.



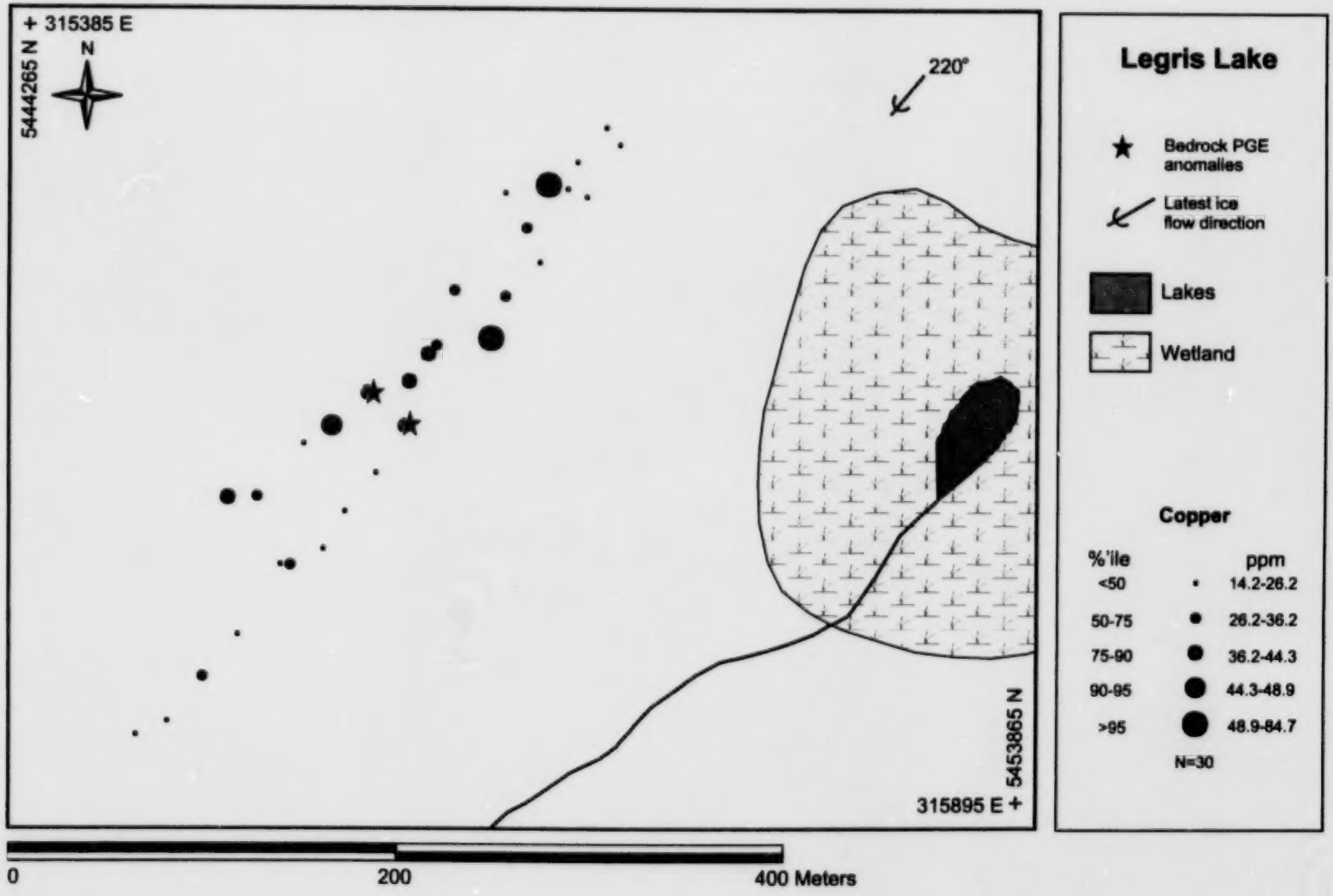
Nickel in the <177μm fraction of humus.



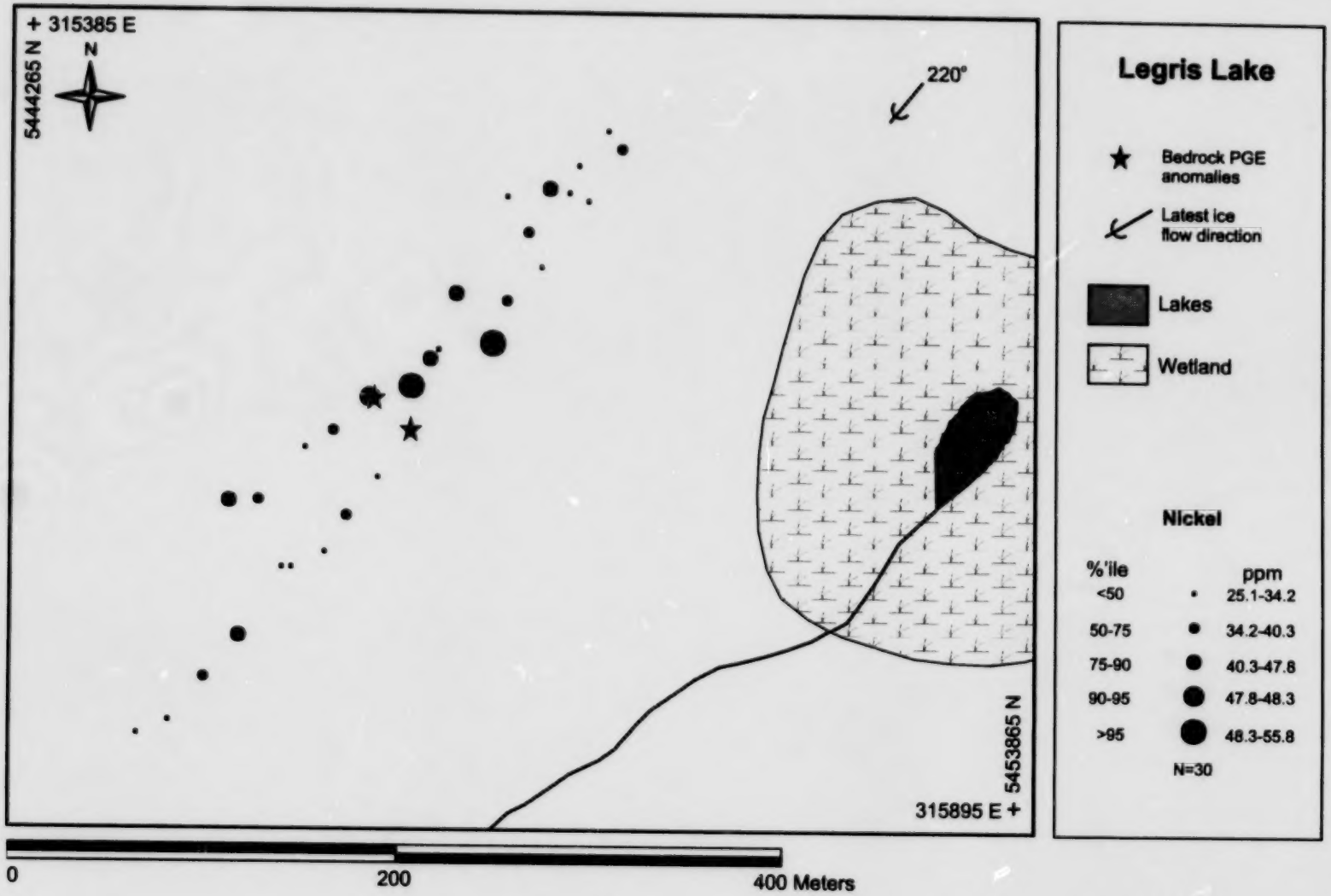
Palladium in the <63μm fraction of B-horizon.



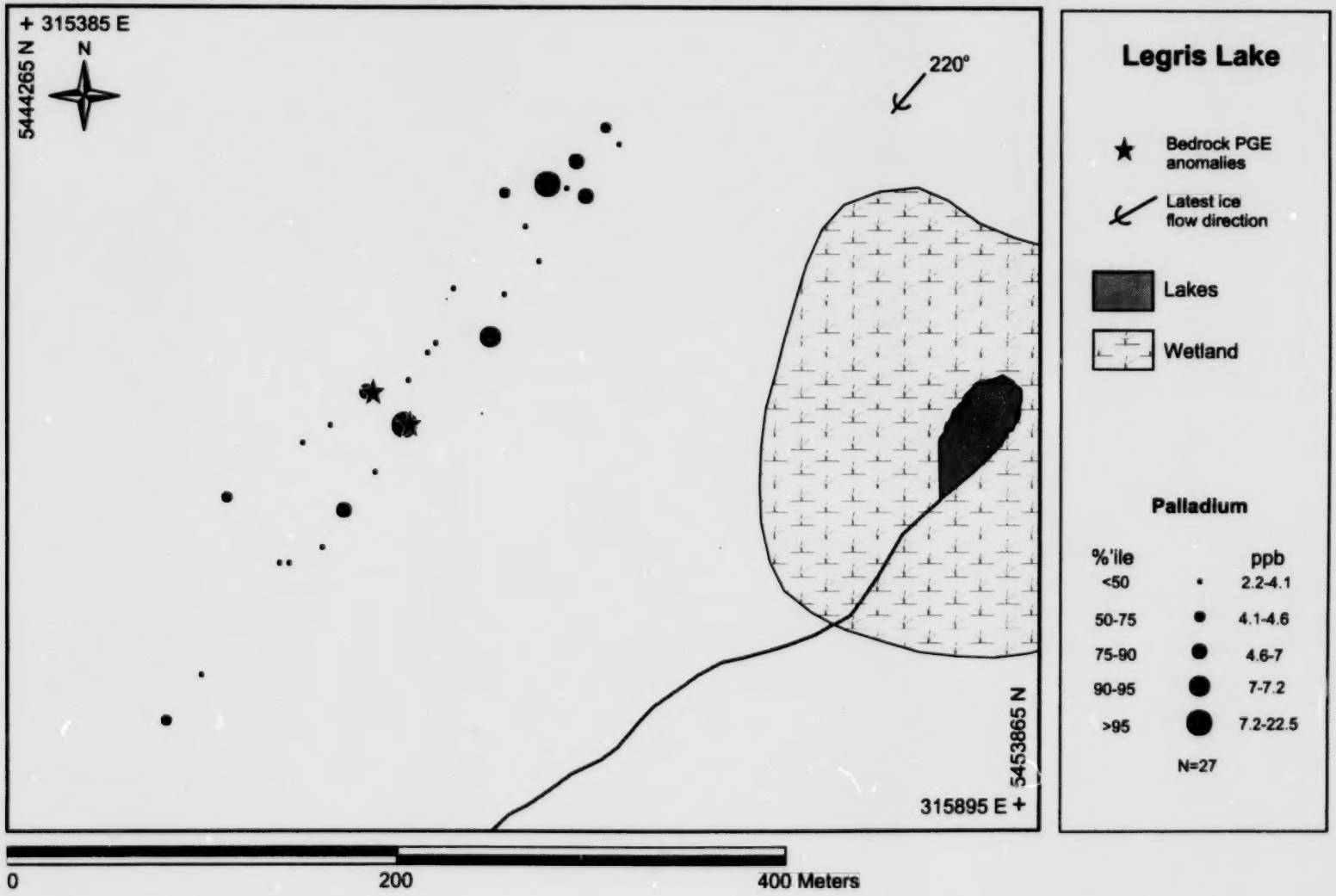
Platinum in the <63μm fraction of B-horizon.



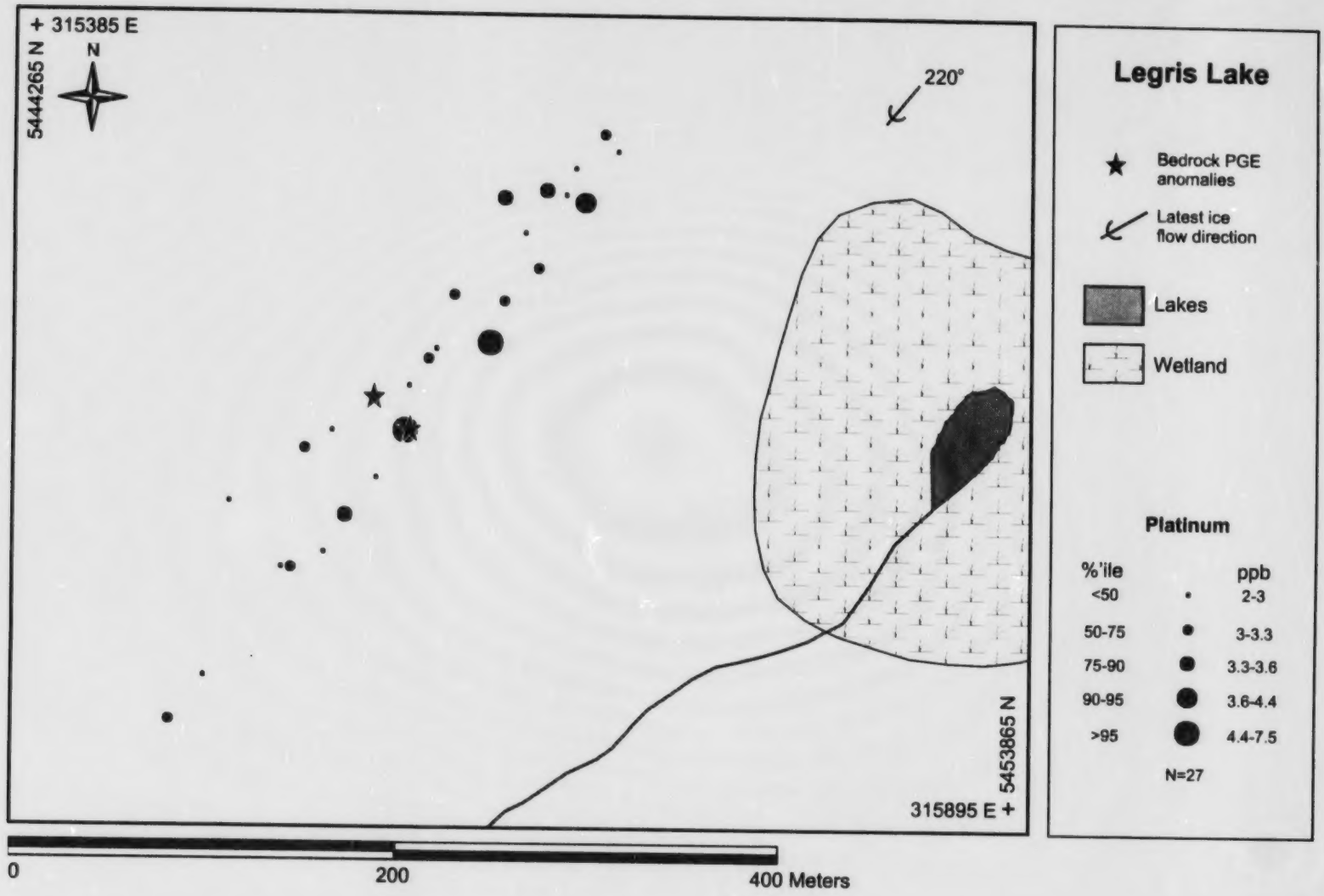
Copper in the <63μm fraction of B-horizon.



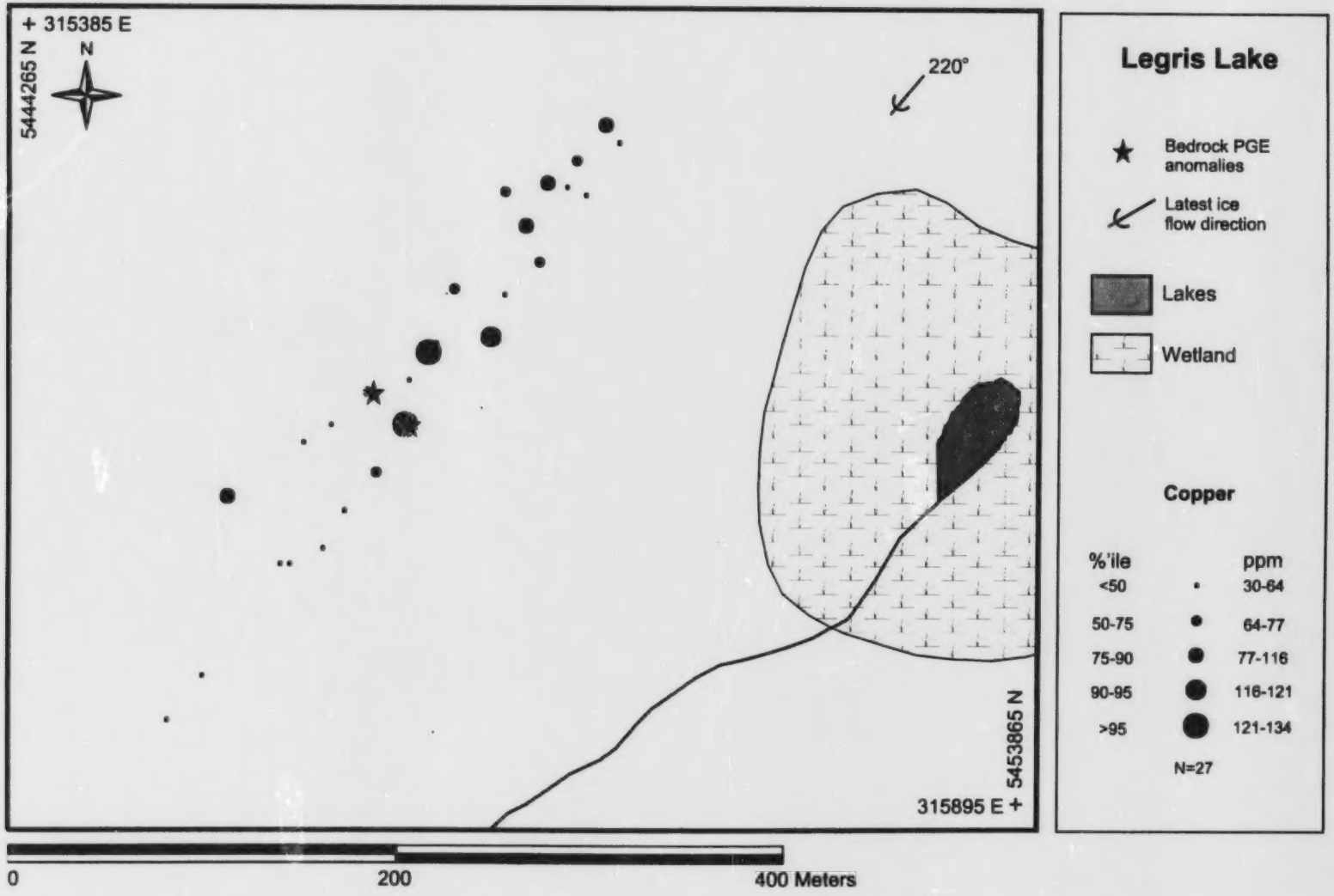
Nickel in the <63μm fraction of B-horizon.



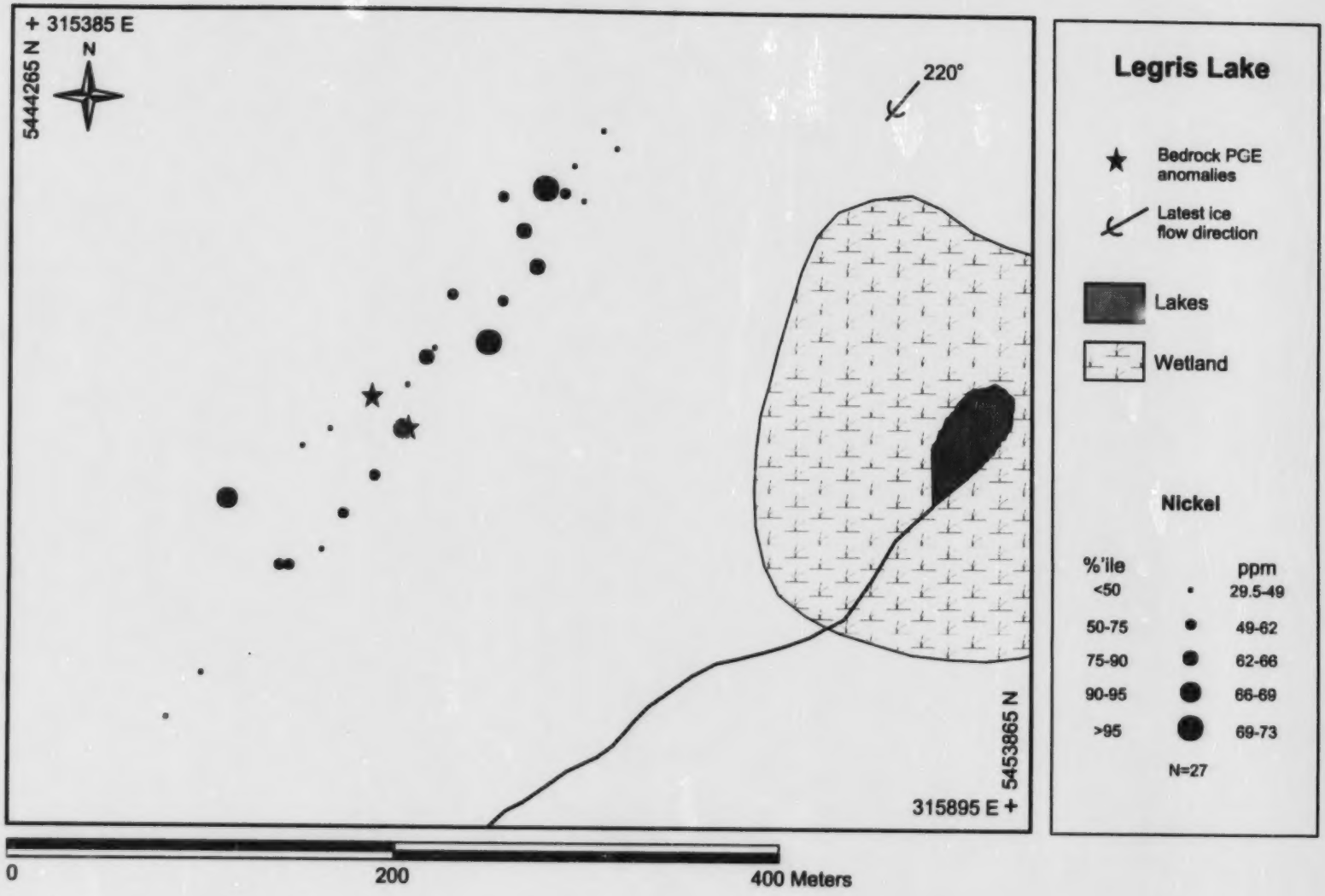
Palladium in the <63μm fraction of C-horizon till.



Platinum in the <63μm fraction of C-horizon till.



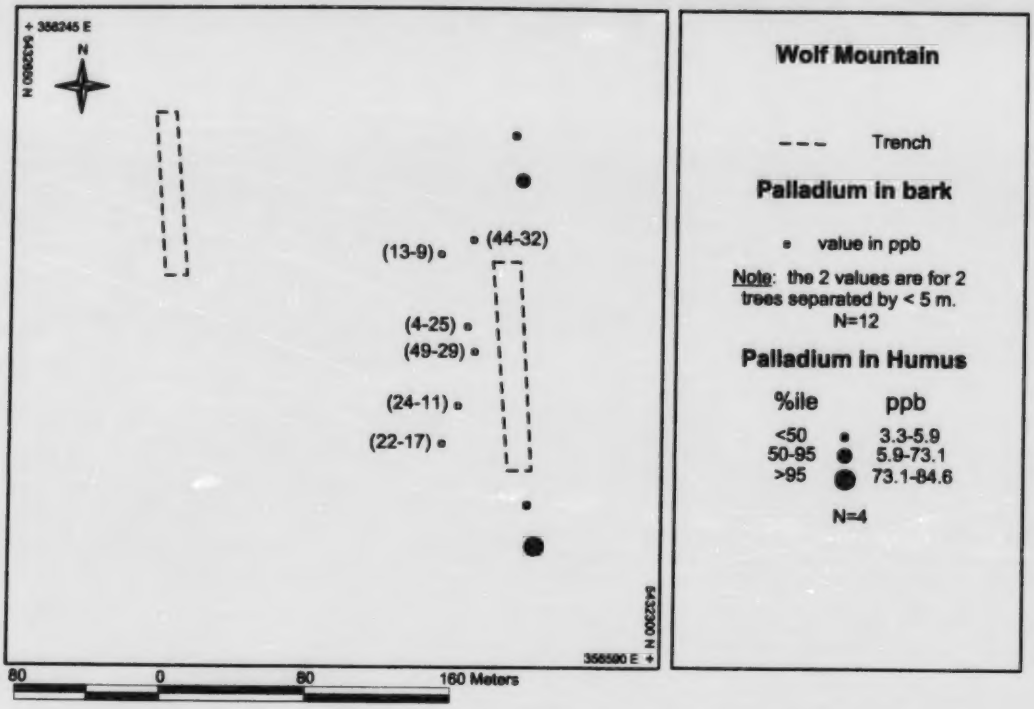
Copper in the <63μm fraction of C-horizon till.



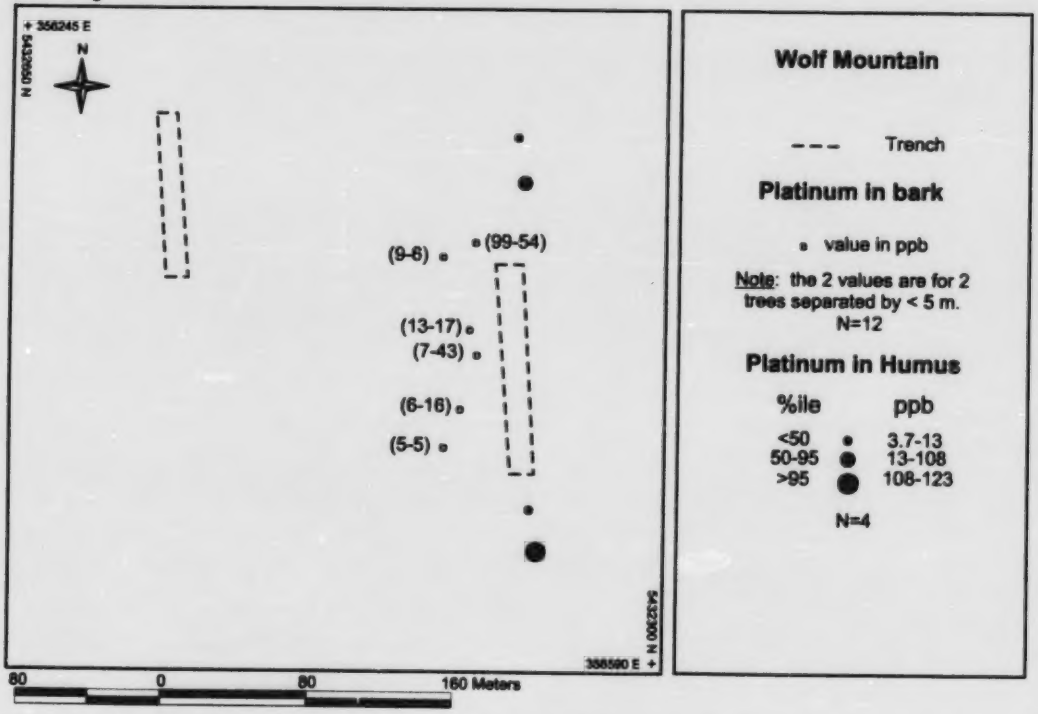
Nickel in the <63μm fraction of C-horizon till.

APPENDIX K

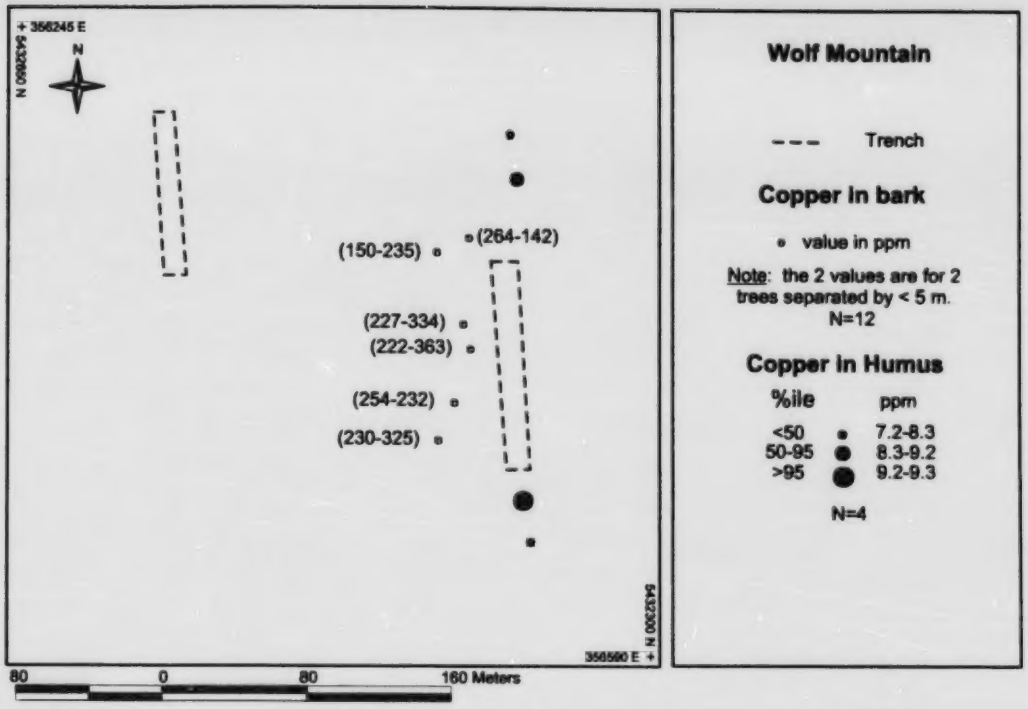
Wolf Mountain Geochemical Plots



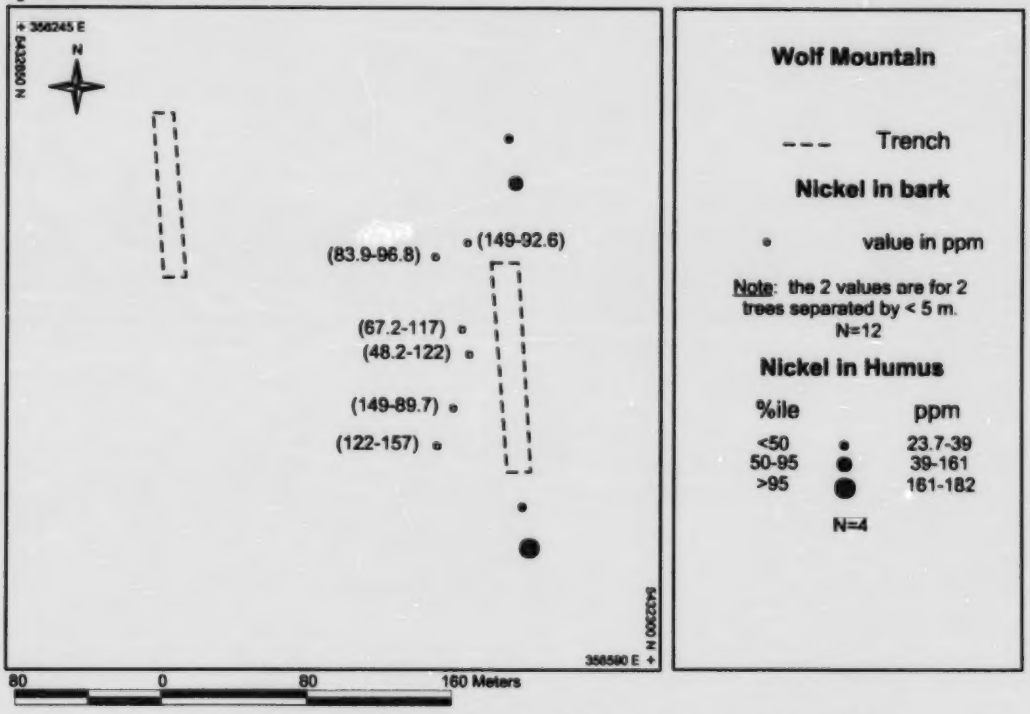
Palladium in the <177 μm fraction of humus and palladium in the outer bark of black spruce trees.



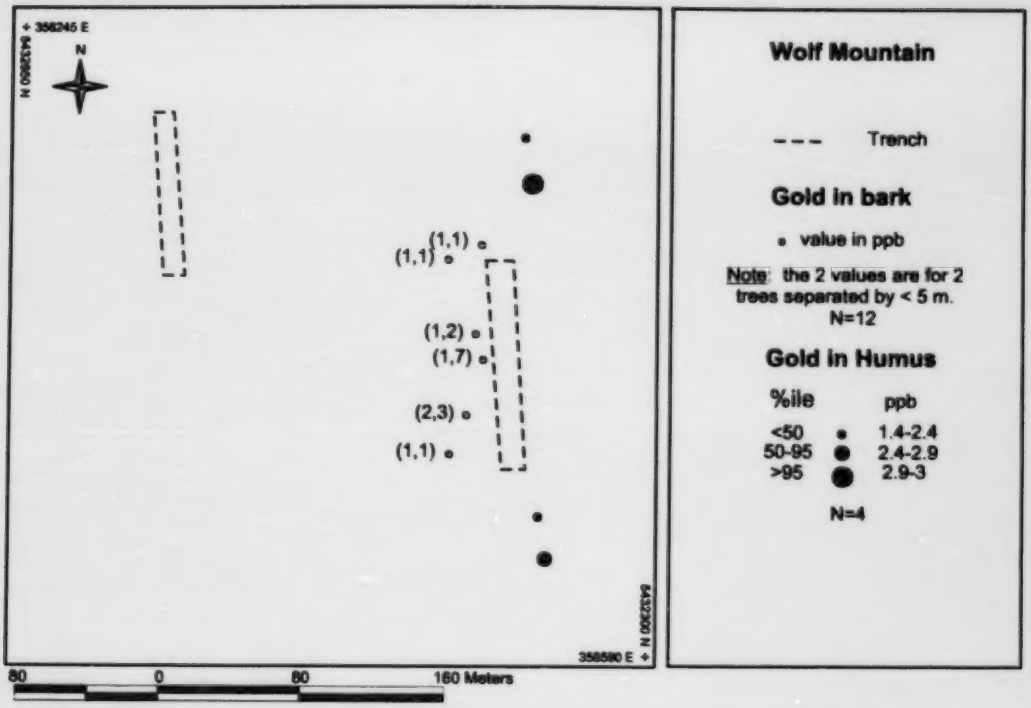
Platinum in the <177 μm fraction of humus and platinum in the outer bark of black spruce trees.



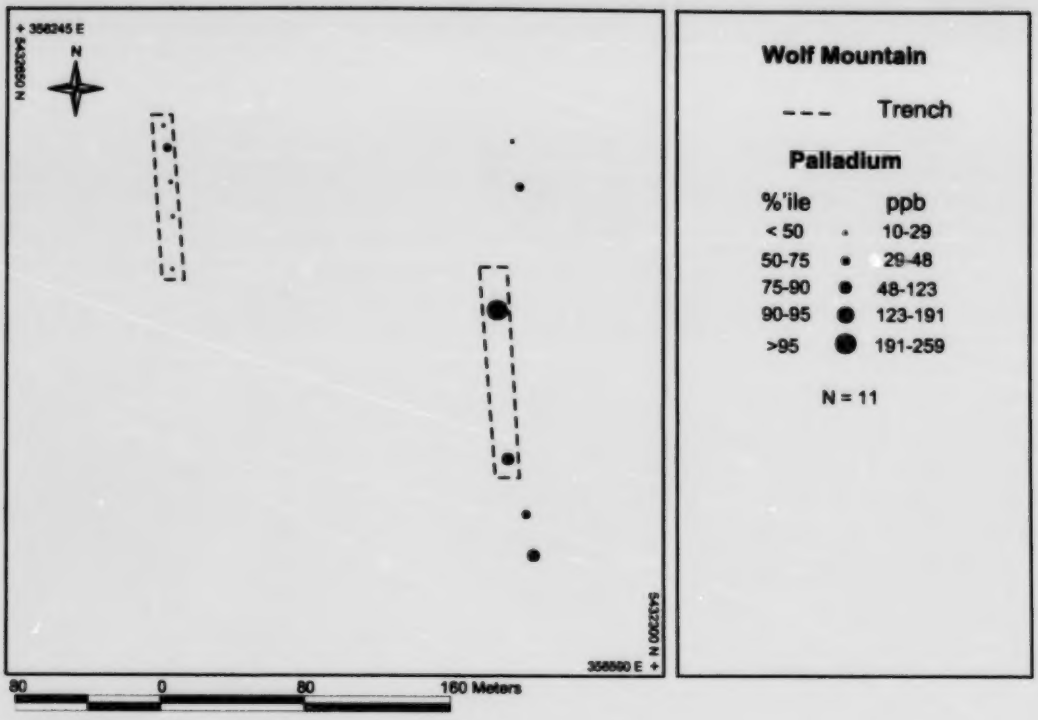
Copper in the <177 μm fraction of humus and copper in the outer bark of black spruce trees.



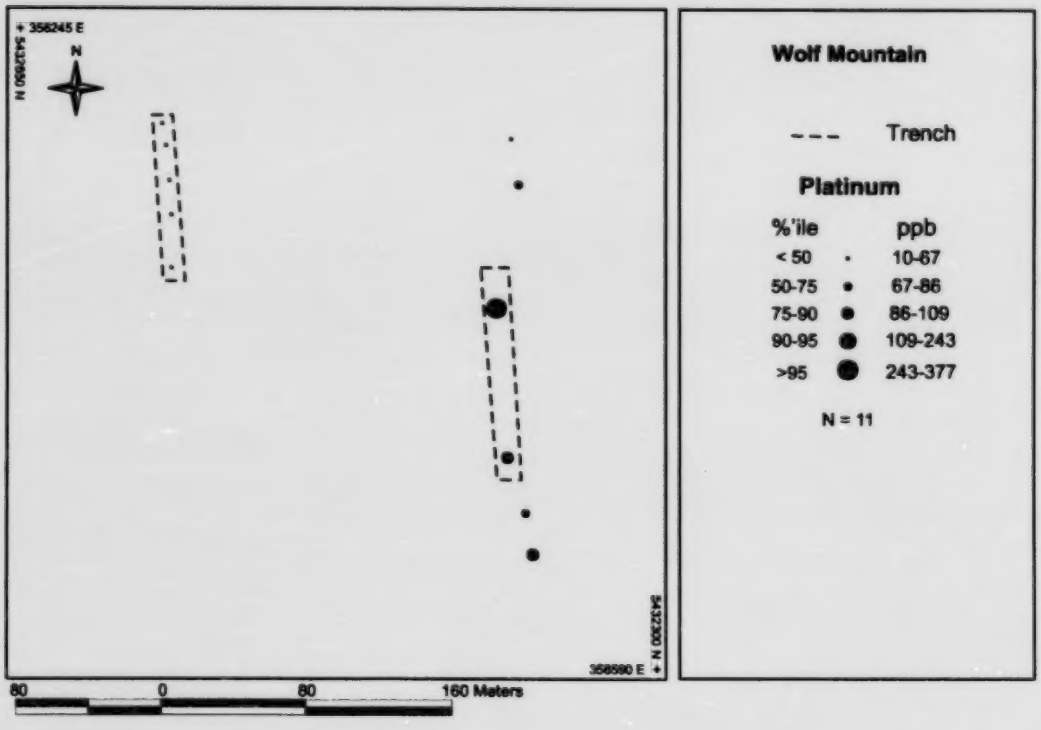
Nickel in the <177 μm fraction of humus and nickel in the outer bark of black spruce trees.



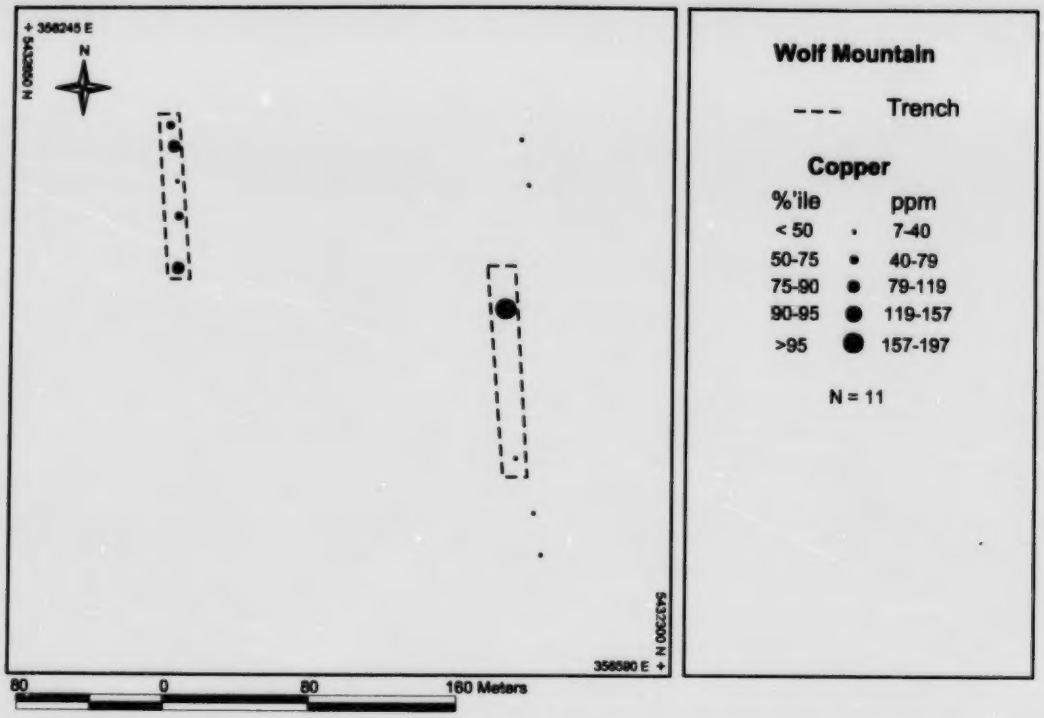
Gold in the <177μm fraction of humus and gold in the outer bark of black spruce trees.



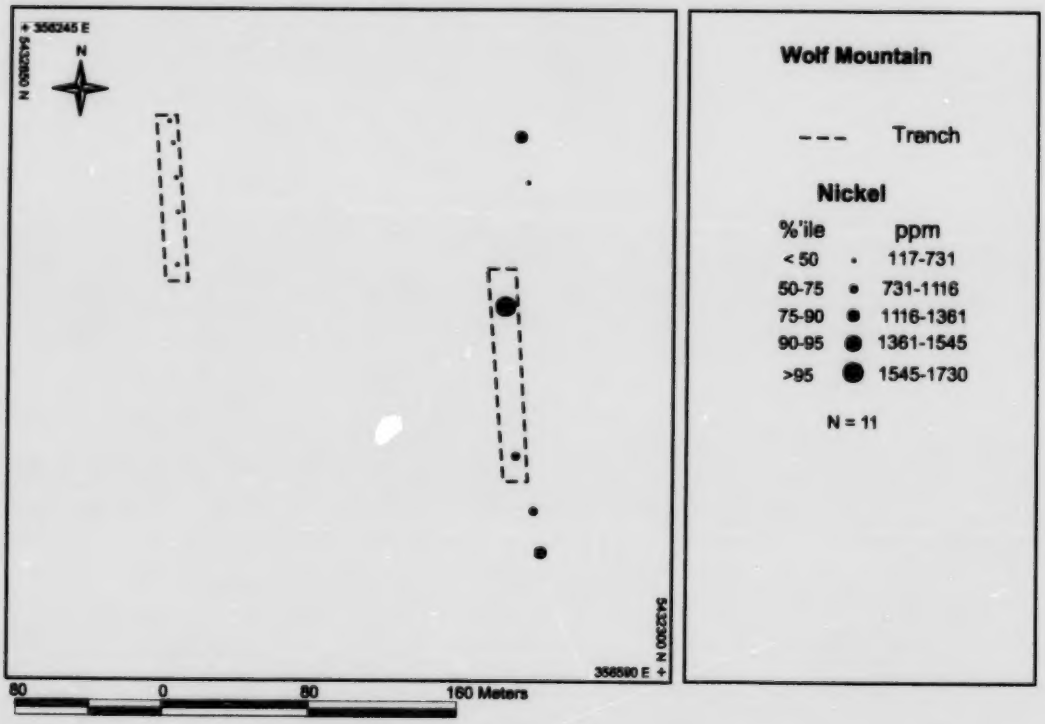
Palladium in the <63 μm fraction of B-horizon.



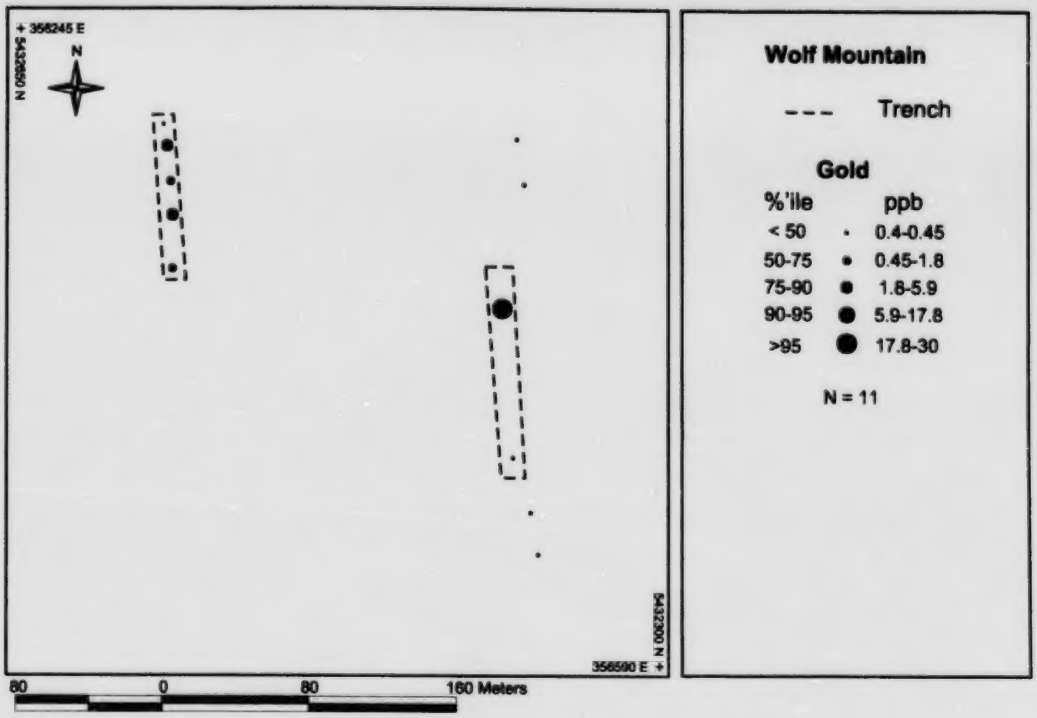
Platinum in the <63 μm fraction of B-horizon.



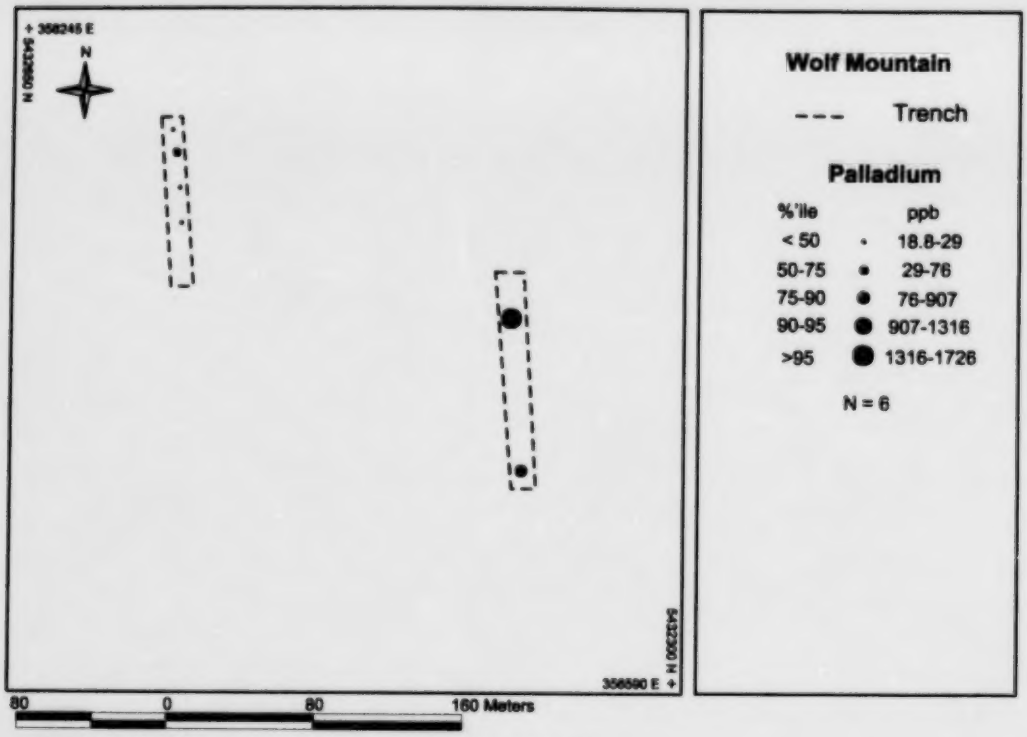
Copper in the <63 μm fraction of B-horizon.



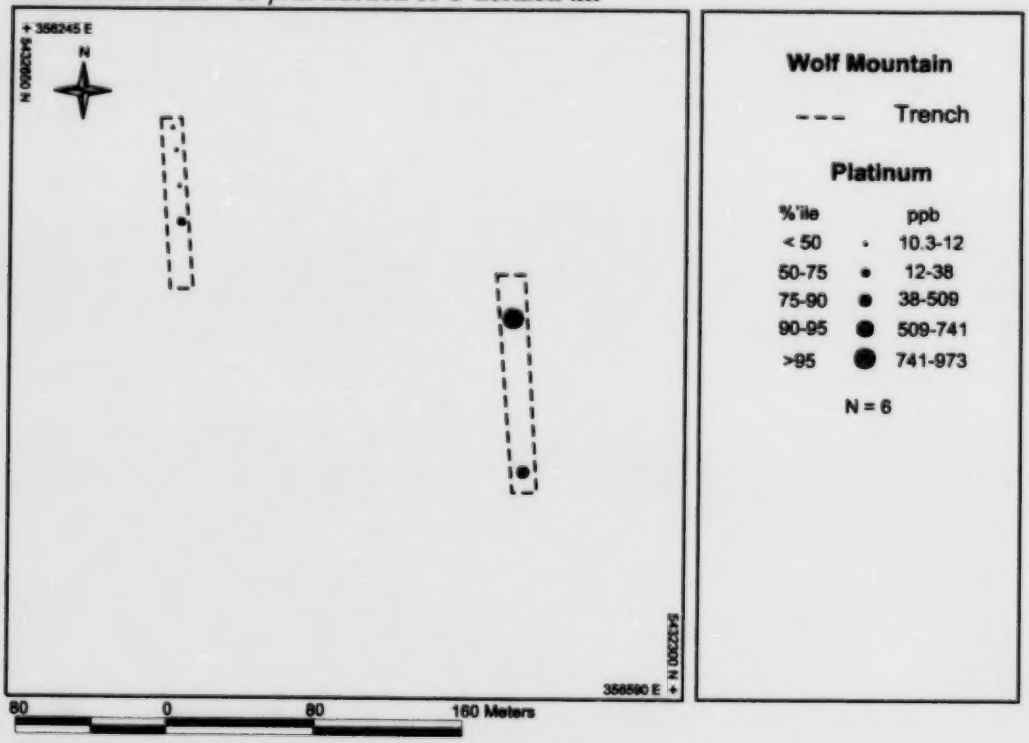
Nickel in the <63 μm fraction of B-horizon.



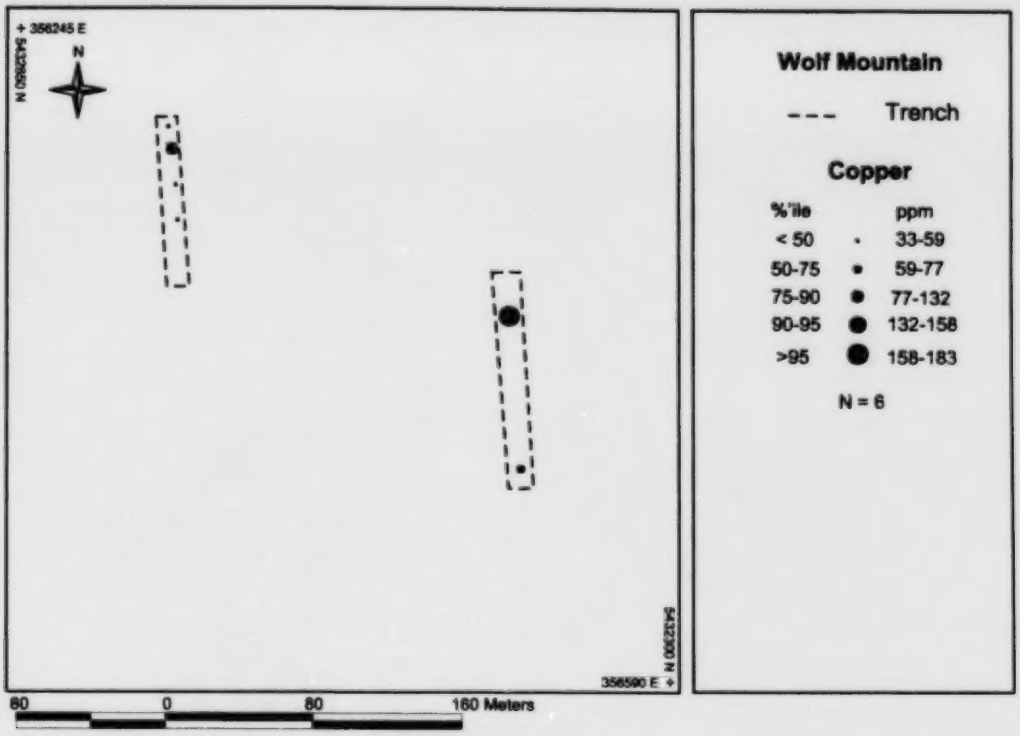
Gold in the <63μm fraction of B-horizon.



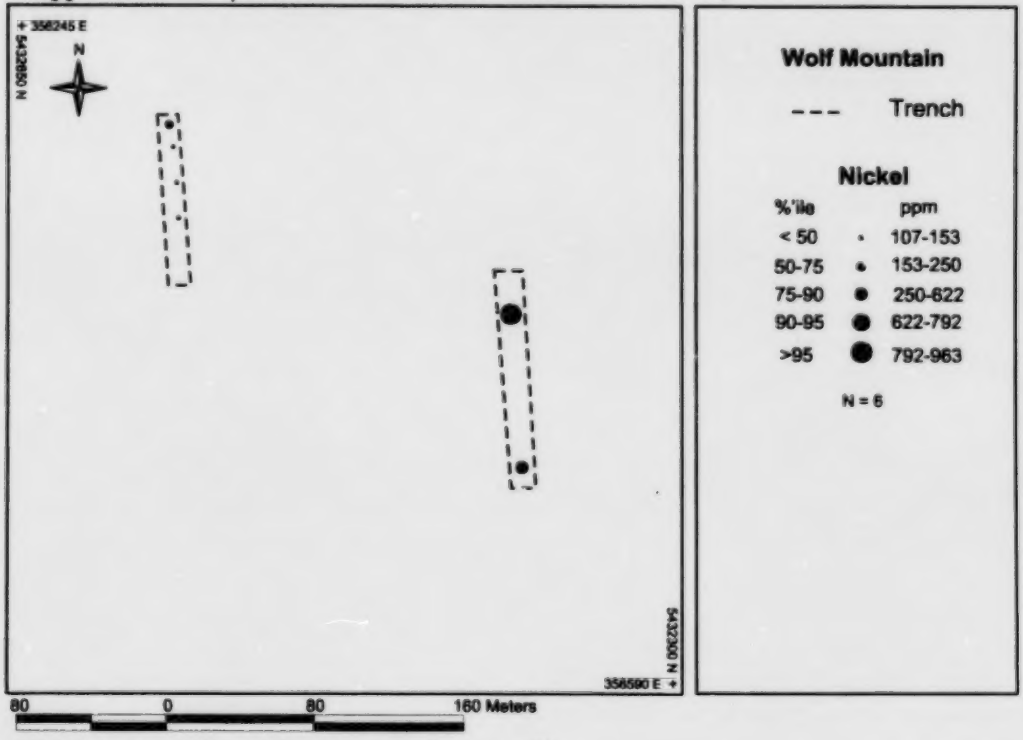
Palladium in the <63 μm fraction of C-horizon till



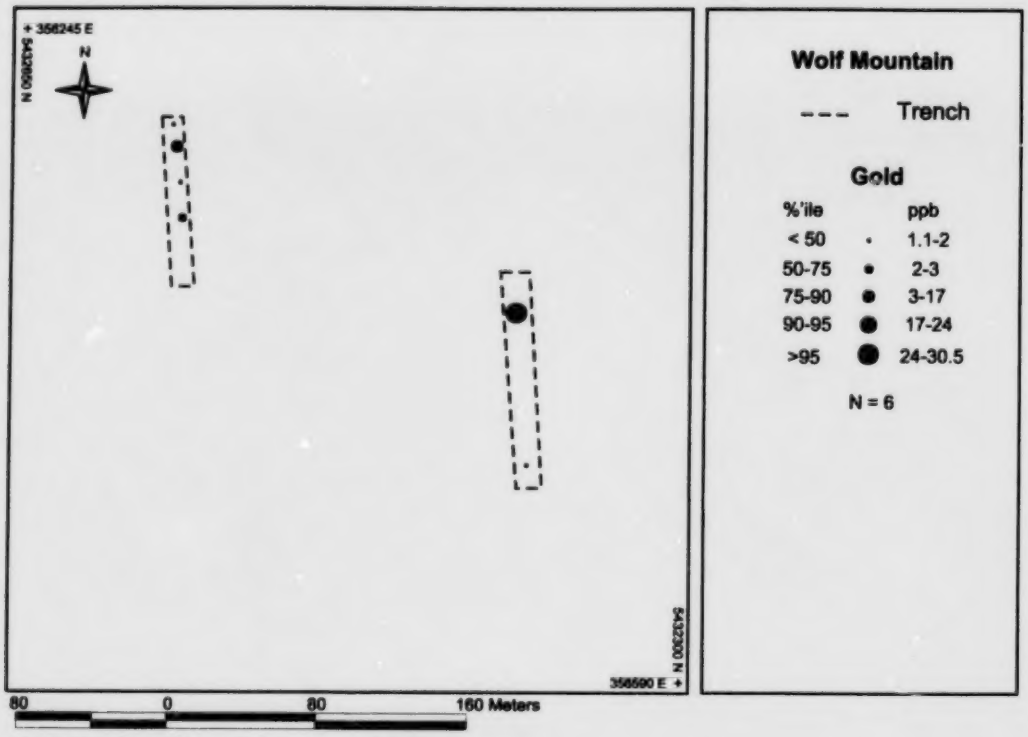
Platinum in the <63μm fraction of C-horizon till.



Copper in the <63 μm fraction of C-horizon till.



Nickel in the <63 μm fraction of C-horizon till.



Gold in the <63 μm fraction of C-horizon till.

APPENDIX L

Property Correlation Matrices

M121

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Correlation matrices for the < 177 µm fraction of the humus horizon at the Buck Lake Property (28 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.404	1														
Pt	0.425	0.967	1													
Fe	0.241	0.060	-0.022	1												
Mn	0.254	0.155	0.185	0.263	1											
Ag	0.039	-0.139	-0.125	0.052	0.228	1										
Cd	-0.056	-0.119	-0.048	-0.390	0.366	0.301	1									
Co	0.154	-0.047	-0.109	0.732	0.665	0.375	0.098	1								
Cr	0.207	0.470	0.413	0.517	0.119	-0.029	-0.149	0.330	1							
Cu	0.058	0.219	0.065	0.420	-0.047	0.201	-0.181	0.390	0.665	1						
Mo	0.011	-0.175	-0.283	0.608	0.346	0.373	0.040	0.778	0.369	0.550	1					
Ni	-0.021	0.212	0.100	0.597	-0.020	0.045	-0.218	0.494	0.772	0.810	0.507	1				
Pb	0.387	0.211	0.305	0.109	0.588	0.148	0.566	0.364	0.052	-0.308	0.121	-0.126	1			
Sb	0.218	-0.017	0.031	0.192	0.226	0.078	0.385	0.257	0.008	-0.138	0.136	0.036	0.785	1		
W	-0.113	0.012	-0.066	0.101	-0.267	-0.014	-0.293	0.032	0.124	0.312	0.271	0.287	-0.372	-0.215	1	
Zn	0.301	0.274	0.252	0.132	0.783	0.113	0.455	0.506	0.081	-0.021	0.181	-0.040	0.559	0.298	-0.204	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Buck Lake Property (28 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.328	1														
Pt	0.289	0.660	1													
Fe	0.170	0.068	0.146	1												
Mn	0.149	0.092	0.367	0.463	1											
Ag	-0.106	-0.070	-0.438	0.041	-0.346	1										
Cd	-0.112	-0.173	-0.444	0.083	-0.397	0.831	1									
Co	0.248	0.172	0.463	0.409	0.489	-0.169	-0.121	1								
Cr	0.123	0.609	0.500	0.235	-0.172	-0.051	-0.068	0.066	1							
Cu	0.177	0.276	0.055	0.322	0.310	-0.024	-0.146	0.293	-0.166	1						
Mo	-0.007	0.148	-0.186	0.231	-0.282	0.341	0.277	-0.314	0.369	0.176	1					
Ni	0.183	0.570	0.536	0.235	0.032	-0.194	-0.145	0.370	0.758	0.134	0.123	1				
Pb	-0.159	0.001	-0.389	0.259	-0.451	0.547	0.477	-0.345	0.294	-0.069	0.690	-0.092	1			
Sb	-0.101	-0.115	-0.363	0.131	-0.246	0.784	0.867	-0.017	0.086	-0.201	0.163	-0.076	0.462	1		
W	0.187	0.149	-0.256	0.189	-0.175	0.582	0.683	-0.163	0.206	-0.154	0.143	-0.009	0.423	0.767	1	
Zn	0.004	0.131	-0.227	0.465	0.280	0.518	0.325	-0.096	0.090	0.303	0.530	-0.012	0.541	0.410	0.371	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Baker Zone Property (36 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.362	1														
Pt	0.174	0.684	1													
Fe	0.186	0.452	0.543	1												
Mn	0.347	0.603	0.589	0.466	1											
Ag	-0.007	-0.259	-0.100	-0.028	-0.081	1										
Cd	-0.518	-0.120	-0.059	-0.029	-0.231	-0.085	1									
Co	0.221	0.610	0.692	0.838	0.631	-0.152	-0.032	1								
Cr	0.312	0.644	0.595	0.658	0.729	-0.237	-0.058	0.829	1							
Cu	0.137	0.522	0.439	0.292	0.431	-0.139	-0.040	0.436	0.403	1						
Mo	-0.261	-0.156	0.043	0.458	-0.361	0.017	0.455	0.267	0.056	-0.241	1					
Ni	0.191	0.546	0.559	0.711	0.573	-0.188	-0.053	0.863	0.897	0.446	0.170	1				
Pb	-0.356	-0.414	-0.392	-0.131	-0.629	0.010	0.569	-0.385	-0.385	-0.407	0.601	-0.373	1			
Sb	-0.292	-0.207	0.027	0.158	-0.314	0.295	0.432	0.057	-0.044	-0.099	0.477	0.049	0.410	1		
W	-0.262	-0.190	0.003	0.182	-0.109	0.240	0.376	0.168	0.112	0.002	0.475	0.163	0.254	0.446	1	
Zn	-0.355	-0.096	-0.032	0.477	-0.045	0.142	0.455	0.264	0.122	0.004	0.657	0.247	0.481	0.372	0.331	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Baker Zone Property (45 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.568	1														
Pt	0.500	0.608	1													
Fe	0.432	0.540	0.592	1												
Mn	0.332	0.334	0.524	0.804	1											
Ag	-0.024	-0.020	0.103	-0.023	0.056	1										
Cd	0.088	-0.119	-0.148	0.042	0.012	0.162	1									
Co	0.236	0.281	0.510	0.778	0.870	-0.016	-0.123	1								
Cr	0.264	0.352	0.492	0.775	0.823	0.034	-0.077	0.925	1							
Cu	0.477	0.855	0.569	0.542	0.303	-0.154	-0.266	0.291	0.317	1						
Mo	0.024	-0.092	0.284	0.477	0.626	0.140	0.058	0.618	0.587	-0.079	1					
Ni	0.231	0.267	0.507	0.738	0.809	-0.138	-0.106	0.896	0.890	0.301	0.672	1				
Pb	-0.133	-0.270	-0.315	-0.164	-0.319	0.078	0.375	-0.351	-0.371	-0.241	-0.188	-0.366	1			
Sb	0.133	-0.069	0.115	0.040	0.194	0.701	0.322	0.046	0.014	-0.149	0.234	-0.063	0.104	1		
W	0.176	0.278	0.276	0.239	0.190	0.141	0.037	0.081	0.033	0.163	0.054	-0.058	-0.128	0.179	1	
Zn	0.362	0.478	0.528	0.709	0.714	0.153	-0.031	0.666	0.704	0.474	0.309	0.592	-0.250	0.075	0.023	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Buck Lake Property (28 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.404	1														
Pt	0.425	0.967	1													
Fe	0.241	0.060	-0.022	1												
Mn	0.254	0.155	0.185	0.263	1											
Ag	0.039	-0.139	-0.125	0.052	0.228	1										
Cd	-0.055	-0.119	-0.048	-0.390	0.366	0.301	1									
Co	0.154	-0.047	-0.109	0.732	0.665	0.375	0.098	1								
Cr	0.207	0.470	0.413	0.517	0.119	-0.029	-0.149	0.330	1							
Cu	0.058	0.219	0.065	0.420	-0.047	0.201	-0.161	0.390	0.665	1						
Mo	0.011	-0.175	-0.283	0.608	0.346	0.373	0.040	0.778	0.369	0.550	1					
Ni	-0.021	0.212	0.100	0.597	-0.020	0.045	-0.218	0.494	0.772	0.810	0.507	1				
Pb	0.387	0.211	0.305	0.109	0.588	0.148	0.566	0.364	0.052	-0.308	0.121	-0.126	1			
Sb	0.218	-0.017	0.031	0.192	0.226	0.078	0.385	0.257	0.008	-0.138	0.136	0.036	0.785	1		
W	-0.113	0.012	-0.066	0.101	-0.267	-0.014	-0.293	0.032	0.124	0.312	0.271	0.287	-0.372	-0.215	1	
Zn	0.301	0.274	0.252	0.132	0.783	0.113	0.455	0.506	0.081	-0.021	0.181	-0.040	0.559	0.298	-0.204	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Buck Lake Property (28 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.328	1														
Pt	0.289	0.660	1													
Fe	0.170	0.068	0.146	1												
Mn	0.149	0.092	0.367	0.463	1											
Ag	-0.106	-0.070	-0.428	0.041	-0.348	1										
Cd	-0.112	-0.173	-0.444	0.083	-0.397	0.831	1									
Co	0.248	0.172	0.463	0.409	0.489	-0.169	-0.121	1								
Cr	0.123	0.609	0.500	0.235	-0.172	-0.051	-0.058	0.066	1							
Cu	0.177	0.276	0.055	0.322	0.310	-0.024	-0.146	0.293	-0.166	1						
Mo	-0.007	0.148	-0.166	0.231	-0.282	0.341	0.277	-0.314	0.369	0.176	1					
Ni	0.183	0.570	0.536	0.235	0.032	-0.194	-0.145	0.370	0.758	0.134	0.123	1				
Pb	-0.159	0.001	-0.389	0.259	-0.451	0.547	0.477	-0.345	0.294	-0.069	0.690	-0.092	1			
Sb	-0.101	-0.115	-0.363	0.131	-0.246	0.784	0.867	-0.017	0.086	-0.201	0.163	-0.076	0.462	1		
W	0.187	0.149	-0.255	0.189	-0.175	0.582	0.683	-0.163	0.208	-0.154	0.143	-0.009	0.423	0.767	1	
Zn	0.004	0.131	-0.227	0.465	0.260	0.518	0.325	-0.096	0.090	0.303	0.530	-0.012	0.541	0.410	0.371	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Baker Zone Property (36 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.362	1														
Pt	0.174	0.684	1													
Fe	0.186	0.452	0.543	1												
Mn	0.347	0.603	0.569	0.466	1											
Ag	-0.007	-0.259	-0.100	-0.028	-0.081	1										
Cd	-0.518	-0.120	-0.059	-0.029	-0.231	-0.085	1									
Co	0.221	0.610	0.692	0.838	0.631	-0.152	-0.032	1								
Cr	0.312	0.644	0.595	0.658	0.729	-0.237	-0.058	0.829	1							
Cu	0.137	0.522	0.439	0.292	0.431	-0.139	-0.040	0.436	0.403	1						
Mo	-0.261	-0.156	0.043	0.458	-0.361	0.017	0.455	0.267	0.056	-0.241	1					
Ni	0.191	0.546	0.559	0.711	0.573	-0.188	-0.053	0.863	0.897	0.446	0.170	1				
Pb	-0.356	-0.414	-0.392	-0.131	-0.629	0.010	0.569	-0.385	-0.385	-0.407	0.601	-0.373	1			
Sb	-0.292	-0.207	0.027	0.158	-0.314	0.295	0.432	0.057	-0.044	-0.099	0.477	0.049	0.410	1		
W	-0.262	-0.190	0.003	0.182	-0.109	0.240	0.376	0.168	0.112	0.002	0.475	0.163	0.254	0.446	1	
Zn	-0.355	-0.096	-0.032	0.477	-0.045	0.142	0.455	0.264	0.122	0.004	0.657	0.247	0.461	0.372	0.331	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Baker Zone Property (45 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.568	1														
Pt	0.500	0.608	1													
Fe	0.432	0.540	0.592	1												
Mn	0.332	0.334	0.524	0.804	1											
Ag	-0.024	-0.020	0.103	-0.023	0.056	1										
Cd	0.088	-0.119	-0.148	0.042	0.012	0.162	1									
Co	0.236	0.281	0.510	0.778	0.870	-0.016	-0.123	1								
Cr	0.264	0.352	0.492	0.775	0.823	0.034	-0.077	0.925	1							
Cu	0.477	0.855	0.589	0.542	0.303	-0.154	-0.268	0.291	0.317	1						
Mo	0.024	-0.092	0.284	0.477	0.626	0.140	0.058	0.618	0.587	-0.079	1					
Ni	0.231	0.267	0.507	0.738	0.809	-0.138	-0.106	0.896	0.890	0.301	0.672	1				
Pb	-0.133	-0.270	-0.315	-0.164	-0.319	0.078	0.375	-0.351	-0.371	-0.241	-0.188	-0.366	1			
Sb	0.133	-0.069	0.115	0.040	0.194	0.701	0.322	0.046	0.014	-0.149	0.234	-0.063	0.104	1		
W	0.176	0.278	0.276	0.239	0.190	0.141	0.037	0.081	0.033	0.163	0.054	-0.058	-0.128	0.179	1	
Zn	0.362	0.478	0.528	0.709	0.714	0.153	-0.031	0.666	0.704	0.474	0.399	0.592	-0.250	0.075	0.023	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Haines Township Property (50 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.332	1														
Pt	0.326	0.826	1													
Fe	0.057	0.455	0.558	1												
Mn	-0.037	0.522	0.416	0.509	1											
Ag	0.104	0.365	0.234	0.243	0.313	1										
Cd	0.005	0.392	0.359	0.232	0.710	0.151	1									
Co	0.023	0.381	0.327	0.674	0.650	0.284	0.468	1								
Cr	0.040	0.395	0.455	0.928	0.435	0.148	0.078	0.566	1							
Cu	0.041	0.253	0.065	0.044	0.071	0.426	0.229	0.287	0.012	1						
Mo	-0.035	-0.081	-0.192	-0.021	-0.104	0.224	-0.161	-0.049	0.054	0.396	1					
Ni	0.010	0.514	0.424	0.733	0.548	0.351	0.322	0.746	0.694	0.460	0.250	1				
Pb	-0.148	0.449	0.413	0.408	0.657	0.282	0.522	0.440	0.330	0.017	0.125	0.446	1			
Sb	-0.219	0.015	0.019	0.036	0.036	0.282	-0.085	0.011	-0.015	0.017	0.370	0.073	0.530	1		
W	-0.034	0.276	0.317	0.518	0.583	0.113	0.526	0.419	0.485	0.010	0.051	0.486	0.391	-0.066	1	
Zn	0.055	0.552	0.480	0.425	0.704	0.167	0.770	0.471	0.349	0.235	0.006	0.493	0.424	-0.245	0.552	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Haines Township Property (45 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.399	1														
Pt	0.293	0.543	1													
Fe	0.121	-0.058	0.452	1												
Mn	0.098	-0.165	-0.049	0.107	1											
Ag	-0.024	0.058	0.445	0.364	-0.136	1										
Cd	0.046	0.052	0.041	0.197	0.032	0.404	1									
Co	0.036	-0.043	0.290	0.375	0.168	0.021	-0.087	1								
Cr	0.088	-0.122	0.234	0.371	0.114	-0.029	-0.067	0.783	1							
Cu	0.313	0.593	0.442	0.031	-0.387	0.116	0.079	0.053	-0.105	1						
Mo	0.049	0.064	-0.050	0.036	0.134	-0.030	0.142	0.044	-0.124	0.322	1					
Ni	-0.185	-0.247	0.071	0.225	-0.059	0.065	-0.179	0.766	0.684	-0.035	-0.093	1				
Pb	-0.246	-0.296	-0.246	0.263	0.295	0.128	0.217	-0.067	-0.330	-0.124	0.384	-0.127	1			
Sb	-0.110	-0.137	0.016	0.053	0.057	0.524	0.669	-0.186	-0.116	-0.127	-0.029	-0.063	0.170	1		
W	0.112	0.216	0.181	0.075	-0.098	0.153	0.198	0.187	-0.015	0.086	0.031	0.031	0.128	0.123	1	
Zn	-0.259	-0.482	-0.212	0.149	0.318	0.037	-0.174	0.422	0.354	-0.357	-0.059	0.476	0.363	-0.080	-0.040	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Haines Township Property (31 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	-0.064	1														
Pt	-0.042	0.642	1													
Fe	-0.287	0.003	0.256	1												
Mn	0.317	0.056	0.313	0.627	1											
Ag	-0.168	-0.416	-0.495	0.209	0.029	1										
Cd	0.086	-0.022	-0.060	0.044	0.114	0.427	1									
Co	0.003	0.251	0.369	0.668	0.540	-0.012	0.210	1								
Cr	-0.119	0.088	0.259	0.538	0.331	-0.015	0.231	0.650	1							
Cu	-0.003	0.483	0.229	0.075	0.123	-0.106	0.282	0.273	0.266	1						
Mo	-0.289	-0.012	-0.195	0.297	-0.166	0.307	0.373	0.246	0.404	0.338	1					
Ni	-0.141	0.318	0.389	0.470	0.310	-0.029	0.358	0.821	0.806	0.459	0.365	1				
Pb	0.089	0.063	-0.030	0.311	0.412	0.306	0.268	0.398	0.381	0.179	0.415	0.361	1			
Sb	-0.032	-0.312	-0.268	0.172	-0.090	0.469	0.124	0.096	0.049	-0.319	0.263	-0.089	0.305	1		
W	-0.355	0.545	0.453	0.196	-0.042	-0.038	0.330	0.175	0.485	0.300	0.404	0.496	0.137	-0.188	1	
Zn	0.147	-0.226	-0.103	0.464	0.405	0.176	0.249	0.662	0.486	0.021	0.340	0.476	0.524	0.369	-0.182	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Legris Lake Property (32 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.139	1														
Pt	0.225	0.509	1													
Fe	-0.232	0.222	0.447	1												
Mn	0.237	0.116	0.285	0.193	1											
Ag	0.299	-0.087	0.309	0.337	0.333	1										
Cd	-0.102	-0.218	-0.055	0.042	0.547	0.069	1									
Co	0.159	0.348	0.464	0.457	0.828	0.381	0.410	1								
Cr	-0.266	0.227	0.613	0.861	0.178	0.293	-0.007	0.416	1							
Cu	-0.004	0.088	0.310	0.348	0.651	0.337	0.371	0.657	0.477	1						
Mo	-0.130	-0.019	0.205	0.486	0.111	0.349	0.161	0.197	0.499	0.359	1					
Ni	-0.137	0.180	0.439	0.756	0.585	0.249	0.321	0.712	0.753	0.714	0.505	1				
Pb	0.204	-0.099	0.165	0.185	0.362	0.443	0.482	0.415	0.194	0.394	0.584	0.283	1			
Sb	-0.095	-0.264	-0.015	0.043	-0.247	0.231	0.156	-0.224	0.128	-0.024	0.611	-0.058	0.621	1		
W	-0.290	0.147	0.105	0.381	-0.242	0.196	-0.201	-0.064	0.416	-0.043	0.419	0.154	0.099	0.262	1	
Zn	-0.437	-0.193	-0.069	0.350	0.138	-0.012	0.590	0.053	0.266	0.086	0.328	0.261	0.221	0.333	0.019	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Haines Township Property (50 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.332	1														
Pt	0.226	0.826	1													
Fe	0.087	0.455	0.555	1												
Mn	-0.037	0.522	0.418	0.509	1											
Ag	0.104	0.365	0.234	0.243	0.313	1										
Cd	0.006	0.392	0.338	0.232	0.710	0.151	1									
Co	0.023	0.381	0.327	0.674	0.660	0.284	0.468	1								
Cr	0.040	0.395	0.455	0.928	0.438	0.148	0.078	0.566	1							
Cu	0.041	0.253	0.065	0.044	0.071	0.426	0.229	0.287	0.012	1						
Mo	-0.035	-0.081	-0.102	-0.021	-0.104	0.224	-0.161	-0.049	0.064	0.396	1					
Ni	0.010	0.514	0.424	0.733	0.548	0.351	0.322	0.746	0.684	0.460	0.250	1				
Pb	-0.148	0.449	0.413	0.408	0.667	0.282	0.522	0.440	0.330	0.017	0.125	0.446	1			
Sb	-0.219	0.015	0.019	0.036	0.036	0.282	-0.085	0.011	-0.015	0.017	0.370	0.073	0.630	1		
W	-0.034	0.276	0.317	0.518	0.583	0.113	0.526	0.419	0.495	0.010	0.051	0.486	0.391	-0.066	1	
Zn	0.055	0.552	0.490	0.425	0.704	0.167	0.770	0.471	0.349	0.235	0.026	0.493	0.424	-0.245	0.552	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Haines Township Property (45 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.399	1														
Pt	0.293	0.543	1													
Fe	0.121	-0.058	0.452	1												
Mn	0.068	-0.165	-0.049	0.107	1											
Ag	-0.024	0.058	0.445	0.364	-0.136	1										
Cd	0.046	0.052	0.041	0.197	0.032	0.404	1									
Co	0.036	-0.043	0.290	0.375	0.166	0.021	-0.087	1								
Cr	0.088	-0.122	0.234	0.371	0.114	-0.029	-0.067	0.783	1							
Cu	0.313	0.593	0.442	0.031	-0.387	0.116	0.079	0.053	-0.105	1						
Mo	0.049	0.064	-0.050	0.036	0.134	-0.030	0.142	0.044	-0.124	0.322	1					
Ni	-0.186	-0.247	0.071	0.225	-0.050	0.065	-0.179	0.766	0.684	-0.035	-0.093	1				
Pb	-0.246	-0.296	-0.246	0.263	0.296	0.128	0.217	-0.067	-0.330	-0.124	0.384	-0.127	1			
Sb	-0.110	-0.137	0.016	0.053	0.057	0.524	0.669	-0.186	-0.116	-0.127	-0.020	-0.063	0.170	1		
W	0.112	0.216	0.181	0.075	-0.098	0.153	0.199	0.187	-0.015	0.086	0.031	0.031	0.126	0.123	1	
Zn	-0.259	-0.482	-0.212	0.149	0.316	0.037	-0.174	0.422	0.354	-0.357	-0.050	0.476	0.353	-0.080	-0.045	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Haines Township Property (31 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	-0.064	1														
Pt	-0.042	0.642	1													
Fe	-0.287	0.003	0.256	1												
Mn	0.317	0.056	0.313	0.627	1											
Ag	-0.168	-0.416	-0.495	0.209	0.029	1										
Cd	0.086	-0.022	-0.060	0.044	0.114	0.427	1									
Co	0.003	0.251	0.369	0.668	0.540	-0.012	0.210	1								
Cr	-0.119	0.088	0.259	0.538	0.331	-0.015	0.231	0.650	1							
Cu	-0.003	0.483	0.229	0.075	0.123	-0.106	0.282	0.273	0.266	1						
Mo	-0.289	-0.012	-0.195	0.297	-0.166	0.307	0.373	0.246	0.404	0.338	1					
Ni	-0.141	0.318	0.389	0.470	0.310	-0.029	0.358	0.821	0.806	0.459	0.365	1				
Pb	0.089	0.063	-0.030	0.311	0.412	0.306	0.266	0.398	0.381	0.179	0.415	0.361	1			
Sb	-0.032	-0.312	-0.268	0.172	-0.090	0.469	0.124	0.096	0.049	-0.319	0.263	-0.089	0.305	1		
W	-0.355	0.545	0.453	0.196	-0.042	-0.038	0.330	0.175	0.485	0.300	0.404	0.496	0.137	-0.188	1	
Zn	0.147	-0.226	-0.103	0.464	0.405	0.176	0.249	0.662	0.486	0.021	0.340	0.476	0.524	0.369	-0.182	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Legris Lake Property (32 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.139	1														
Pt	0.225	0.509	1													
Fe	-0.232	0.222	0.447	1												
Mn	0.237	0.116	0.285	0.193	1											
Ag	0.299	-0.087	0.309	0.337	0.333	1										
Cd	-0.102	-0.218	-0.055	0.042	0.547	0.069	1									
Co	0.159	0.348	0.464	0.457	0.828	0.381	0.410	1								
Cr	-0.266	0.227	0.613	0.861	0.178	0.293	-0.007	0.416	1							
Cu	-0.004	0.088	0.310	0.348	0.651	0.337	0.371	0.657	0.477	1						
Mo	-0.130	-0.019	0.205	0.486	0.111	0.349	0.161	0.197	0.493	0.359	1					
Ni	-0.137	0.180	0.439	0.756	0.585	0.249	0.321	0.712	0.753	0.714	0.606	1				
Pb	0.204	-0.099	0.165	0.185	0.362	0.443	0.482	0.415	0.194	0.394	0.584	0.283	1			
Sb	-0.095	-0.264	-0.015	0.043	-0.247	0.231	0.156	-0.224	0.128	-0.024	0.611	-0.058	0.621	1		
W	-0.290	0.147	0.105	0.381	-0.242	0.196	-0.201	-0.064	0.416	-0.043	0.419	0.154	0.089	0.262	1	
Zn	-0.437	-0.193	-0.069	0.350	0.138	-0.012	0.590	0.053	0.296	0.086	0.329	0.261	0.221	0.333	0.019	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Legris Lake Property (30 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.424	1														
Pt	0.183	0.401	1													
Fe	0.143	-0.263	0.173	1												
Mn	0.152	0.031	0.446	0.695	1											
Ag	-0.024	-0.264	-0.032	-0.115	-0.230	1										
Cd	-0.069	-0.078	0.191	0.092	-0.025	0.555	1									
Co	0.412	0.417	0.419	0.221	0.400	-0.244	-0.244	1								
Cr	0.275	0.197	0.546	0.591	0.680	-0.042	0.137	0.634	1							
Cu	0.393	0.705	0.343	-0.327	-0.148	-0.014	-0.149	0.548	0.247	1						
Mo	0.077	-0.264	-0.114	0.519	0.123	0.356	0.291	-0.092	0.286	-0.129	1					
Ni	0.381	0.563	0.337	-0.085	0.162	-0.183	-0.315	0.874	0.446	0.782	-0.123	1				
Pb	-0.123	-0.299	-0.012	0.635	0.381	0.069	0.428	-0.190	0.436	-0.395	0.636	-0.416	1			
Sb	-0.141	-0.065	0.247	0.071	0.099	0.520	0.753	-0.122	0.232	-0.038	0.182	-0.122	0.166	1		
W	-0.170	-0.090	-0.156	0.076	0.151	-0.150	0.191	-0.090	0.029	-0.072	0.295	-0.056	0.289	0.107	1	
Zn	0.097	-0.101	0.358	0.697	0.697	0.081	0.406	0.431	0.707	-0.152	0.296	0.104	0.521	0.301	0.090	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Legris Lake Property (27 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.634	1														
Pt	0.516	0.926	1													
Fe	0.704	0.496	0.527	1												
Mn	0.672	0.540	0.545	0.824	1											
Ag	0.155	0.380	0.378	-0.030	0.151	1										
Cd	0.179	0.370	0.303	0.028	0.160	0.438	1									
Co	0.653	0.404	0.372	0.854	0.725	0.016	0.015	1								
Cr	0.554	0.190	0.192	0.852	0.685	-0.043	-0.243	0.800	1							
Cu	0.700	0.589	0.533	0.649	0.543	0.051	0.163	0.770	0.523	1						
Mo	0.212	0.250	0.236	0.223	0.076	0.714	0.190	0.252	0.324	0.079	1					
Ni	0.665	0.451	0.410	0.781	0.713	0.187	0.023	0.940	0.790	0.781	0.371	1				
Pb	0.512	0.498	0.437	0.380	0.320	0.508	0.491	0.321	0.277	0.329	0.643	0.408	1			
Sb	-0.016	0.052	0.029	-0.106	-0.177	-0.009	0.575	-0.193	-0.329	-0.023	-0.145	-0.324	0.070	1		
W	0.178	0.007	-0.078	0.136	0.184	-0.066	0.273	0.063	0.145	-0.127	0.029	-0.007	0.156	0.229	1	
Zn	0.699	0.564	0.506	0.740	0.805	0.322	0.296	0.767	0.662	0.589	0.360	0.776	0.545	-0.216	0.071	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Nym Lake Property (24 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.225	1														
Pt	0.445	0.848	1													
Fe	0.200	-0.041	-0.023	1												
Mn	0.313	0.294	0.350	0.062	1											
Ag	-0.059	-0.168	-0.235	0.226	0.245	1										
Cd	0.146	0.114	0.194	0.104	0.680	0.132	1									
Co	0.182	0.168	0.213	0.544	0.710	0.258	0.610	1								
Cr	0.385	-0.030	0.118	0.670	0.043	0.006	0.099	0.425	1							
Cu	0.058	-0.154	0.018	0.439	0.315	0.506	0.546	0.603	0.398	1						
Mo	-0.240	0.531	0.348	0.234	0.213	0.147	0.170	0.380	-0.043	0.044	1					
Ni	0.327	0.058	0.212	0.579	0.445	0.168	0.439	0.786	0.602	0.584	0.175	1				
Pb	-0.104	0.403	0.284	0.150	0.478	0.289	0.514	0.445	-0.065	0.102	0.784	0.202	1			
Sb	-0.375	0.354	0.196	0.033	-0.222	0.028	-0.130	-0.143	-0.125	-0.276	0.772	-0.235	0.592	1		
W	0.218	-0.033	0.009	0.295	0.201	0.171	0.239	0.380	0.610	0.287	0.138	0.361	0.155	0.060	1	
Zn	0.198	0.158	0.108	0.140	0.748	-0.074	0.765	0.595	0.032	0.200	0.194	0.402	0.396	-0.192	0.143	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Nym Lake Property (24 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.119	1														
Pt	0.007	0.418	1													
Fe	-0.375	-0.021	0.385	1												
Mn	-0.291	-0.079	0.361	0.731	1											
Ag	-0.261	0.010	0.123	0.406	0.315	1										
Cd	-0.040	0.106	0.127	0.538	0.356	0.338	1									
Co	-0.016	0.060	0.068	0.536	0.544	0.307	0.269	1								
Cr	-0.057	0.453	0.553	0.687	0.663	0.145	0.271	0.471	1							
Cu	0.264	0.340	0.292	0.081	0.373	0.026	-0.191	0.276	0.673	1						
Mo	-0.260	0.478	0.585	0.576	0.211	0.193	0.479	-0.047	0.567	0.017	1					
Ni	-0.041	0.270	0.225	0.513	0.597	0.426	0.241	0.864	0.660	0.596	0.155	1				
Pb	0.038	-0.083	0.131	0.502	0.346	-0.056	0.375	-0.055	0.489	0.315	0.400	0.066	1			
Sb	-0.319	0.219	0.507	0.580	0.525	0.216	0.269	0.316	0.686	0.346	0.396	0.414	0.283	1		
W	-0.066	0.373	0.287	-0.070	-0.086	-0.170	0.101	-0.470	0.171	0.124	0.458	-0.243	0.276	0.036	1	
Zn	-0.243	-0.100	0.345	0.711	0.526	0.373	0.623	0.541	0.365	0.033	0.351	0.496	0.391	0.379	-0.059	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Legris Lake Property (30 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.424	1														
Pt	0.183	0.401	1													
Fe	0.143	-0.263	0.173	1												
Mn	0.152	0.031	0.440	0.695	1											
Ag	-0.024	-0.264	-0.032	-0.115	-0.230	1										
Cd	-0.069	-0.078	0.191	0.092	-0.025	0.555	1									
Co	0.412	0.417	0.419	0.221	0.400	-0.244	-0.244	1								
Cr	0.275	0.197	0.546	0.591	0.680	-0.042	0.137	0.634	1							
Cu	0.393	0.705	0.348	-0.327	-0.148	-0.014	-0.149	0.548	0.247	1						
Mo	0.077	-0.264	-0.114	0.519	0.123	0.356	0.291	-0.092	0.286	-0.129	1					
Ni	0.381	0.563	0.337	-0.085	0.162	-0.183	-0.315	0.874	0.446	0.782	-0.123	1				
Pb	-0.123	-0.299	-0.012	0.635	0.381	0.069	0.428	-0.190	0.436	-0.395	0.636	-0.416	1			
Sb	-0.141	-0.065	0.247	0.071	0.099	0.520	0.753	-0.122	0.232	-0.038	0.152	-0.122	0.166	1		
W	-0.170	-0.090	-0.156	0.076	0.151	-0.150	0.191	-0.090	0.029	-0.072	0.265	-0.056	0.289	0.107	1	
Zn	0.097	-0.101	0.358	0.697	0.697	0.081	0.406	0.431	0.707	-0.152	0.286	0.104	0.521	0.301	0.080	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Legris Lake Property (27 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.634	1														
Pt	0.516	0.926	1													
Fe	0.704	0.496	0.527	1												
Mn	0.672	0.540	0.545	0.824	1											
Ag	0.155	0.380	0.378	-0.030	0.151	1										
Cd	0.179	0.370	0.303	0.028	0.160	0.438	1									
Co	0.653	0.404	0.372	0.854	0.725	0.016	0.015	1								
Cr	0.554	0.190	0.192	0.852	0.665	-0.043	-0.243	0.800	1							
Cu	0.700	0.589	0.533	0.649	0.543	0.051	0.163	0.770	0.522	1						
Mo	0.212	0.250	0.238	0.223	0.076	0.714	0.180	0.252	0.324	0.079	1					
Ni	0.665	0.451	0.410	0.781	0.713	0.187	0.023	0.940	0.790	0.781	0.371	1				
Pb	0.512	0.498	0.437	0.380	0.320	0.508	0.491	0.321	0.277	0.329	0.643	0.408	1			
Sb	-0.016	0.052	0.029	-0.106	-0.177	-0.009	0.575	-0.193	-0.329	-0.023	-0.148	-0.324	0.070	1		
W	0.178	0.007	-0.078	0.136	0.184	-0.066	0.273	0.063	0.145	-0.127	0.029	-0.007	0.156	0.229	1	
Zn	0.699	0.564	0.506	0.740	0.805	0.322	0.296	0.767	0.662	0.589	0.360	0.776	0.545	-0.216	0.071	1

Correlation matrices for the < 177 µm fraction of the humus horizon at the Nym Lake Property (24 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.225	1														
Pt	0.445	0.848	1													
Fe	0.200	-0.041	-0.023	1												
Mn	0.313	0.294	0.350	0.062	1											
Ag	-0.059	-0.168	-0.235	0.226	0.245	1										
Cd	0.146	0.114	0.194	0.104	0.680	0.132	1									
Co	0.182	0.168	0.213	0.544	0.710	0.258	0.610	1								
Cr	0.385	-0.030	0.118	0.670	0.043	0.006	0.099	0.425	1							
Cu	0.058	-0.154	0.018	0.439	0.315	0.506	0.546	0.603	0.398	1						
Mo	-0.240	0.531	0.348	0.234	0.213	0.147	0.170	0.380	-0.043	0.044	1					
Ni	0.327	0.058	0.212	0.579	0.445	0.168	0.439	0.786	0.602	0.584	0.175	1				
Pb	-0.104	0.403	0.284	0.150	0.478	0.289	0.514	0.445	-0.055	0.102	0.784	0.202	1			
Sb	-0.375	0.354	0.196	0.033	-0.222	0.028	-0.130	-0.143	-0.125	-0.276	0.772	-0.235	0.592	1		
W	0.218	-0.033	0.009	0.295	0.201	0.171	0.239	0.380	0.610	0.287	0.138	0.361	0.155	0.060	1	
Zn	0.198	0.158	0.108	0.140	0.748	-0.074	0.765	0.595	0.032	0.200	0.194	0.402	0.396	-0.192	0.143	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Nym Lake Property (24 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.119	1														
Pt	0.007	0.418	1													
Fe	-0.375	-0.021	0.385	1												
Mn	-0.291	-0.079	0.361	0.731	1											
Ag	-0.261	0.010	0.123	0.406	0.315	1										
Cd	-0.040	0.106	0.127	0.538	0.356	0.338	1									
Co	-0.016	0.060	0.088	0.536	0.544	0.307	0.269	1								
Cr	-0.057	0.453	0.553	0.687	0.663	0.145	0.271	0.471	1							
Cu	0.264	0.340	0.292	0.081	0.373	0.026	-0.191	0.276	0.673	1						
Mo	-0.260	0.478	0.585	0.576	0.211	0.193	0.479	-0.047	0.567	0.017	1					
Ni	-0.041	0.270	0.225	0.513	0.597	0.426	0.241	0.864	0.660	0.596	0.155	1				
Pb	0.038	-0.083	0.131	0.502	0.346	-0.056	0.375	-0.055	0.489	0.315	0.400	0.066	1			
Sb	-0.319	0.219	0.507	0.580	0.525	0.216	0.269	0.316	0.686	0.346	0.395	0.414	0.293	1		
W	-0.066	0.373	0.287	-0.070	-0.086	-0.170	0.101	-0.470	0.171	0.124	0.458	-0.243	0.276	0.036	1	
Zn	-0.243	-0.100	0.345	0.711	0.526	0.373	0.623	0.541	0.385	0.033	0.351	0.496	0.391	0.379	-0.059	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Nym Lake Property (22 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.377	1														
Pt	0.089	0.438	1													
Fe	0.253	0.242	0.468	1												
Mn	0.136	0.258	0.302	0.868	1											
Ag	0.072	-0.140	0.022	0.116	-0.067	1										
Cd	-0.071	0.014	0.145	0.500	0.423	0.323	1									
Co	0.205	0.415	0.485	0.888	0.879	0.019	0.424	1								
Cr	0.181	0.295	0.591	0.798	0.605	0.174	0.251	0.716	1							
Cu	0.389	0.746	0.314	0.341	0.210	0.110	0.238	0.373	0.431	1						
Mo	0.405	0.348	0.294	0.580	0.357	0.228	0.134	0.509	0.502	0.403	1					
Ni	0.377	0.722	0.426	0.650	0.546	-0.013	0.384	0.701	0.633	0.803	0.570	1				
Pb	0.151	0.530	0.354	0.663	0.740	-0.069	0.469	0.788	0.334	0.355	0.438	0.629	1			
Sb	0.344	0.517	0.303	0.753	0.774	0.058	0.350	0.802	0.562	0.419	0.406	0.733	0.770	1		
W	-0.244	0.307	0.446	0.015	-0.029	0.060	0.121	0.194	0.096	0.257	0.172	0.161	0.316	-0.087	1	
Zn	0.005	0.162	0.297	0.795	0.847	0.123	0.639	0.785	0.524	0.260	0.398	0.513	0.819	0.647	0.199	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Powerhouse Zone Property (20 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.328	1														
Pt	-0.087	0.688	1													
Fe	-0.041	-0.110	-0.176	1												
Mn	0.039	0.305	0.678	-0.134	1											
Ag	-0.088	-0.342	-0.074	0.296	-0.098	1										
Cd	0.247	0.034	-0.013	0.725	0.165	0.301	1									
Co	0.369	0.221	0.173	0.523	0.241	-0.035	0.494	1								
Cr	0.417	0.411	0.359	0.241	0.373	-0.323	0.348	0.662	1							
Cu	0.313	0.528	0.471	0.145	0.192	0.051	0.250	0.415	0.376	1						
Mo	-0.102	-0.080	-0.329	0.862	-0.409	0.231	0.647	0.239	0.094	0.027	1					
Ni	0.413	0.259	0.268	0.210	0.332	-0.252	0.232	0.733	0.904	0.236	-0.013	1				
Pb	-0.201	-0.401	-0.400	0.540	-0.332	0.197	0.437	-0.105	-0.211	-0.127	0.654	-0.274	1			
Sb	-0.169	-0.331	-0.369	0.827	-0.330	0.480	0.599	0.224	-0.028	-0.174	0.782	-0.025	0.566	1		
W	-0.117	-0.142	0.160	0.312	0.117	0.473	0.414	0.415	0.244	0.203	0.113	0.324	0.082	0.320	1	
Zn	-0.188	0.021	0.234	0.795	0.275	0.265	0.679	0.489	0.376	0.203	0.589	0.336	0.393	0.594	0.489	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Powerhouse Zone Property (20 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.894	1														
Pt	0.851	0.928	1													
Fe	-0.033	0.136	0.092	1												
Mn	0.582	0.516	0.598	0.204	1											
Ag	0.007	-0.023	0.030	-0.067	0.123	1										
Cd	0.000	0.000	0.000	0.000	0.000	0.000	1									
Co	0.092	0.273	0.255	0.709	0.191	-0.016	0.000	1								
Cr	0.071	0.266	0.274	0.379	0.322	-0.015	0.000	0.597	1							
Cu	0.668	0.717	0.670	0.330	0.503	-0.184	0.000	0.260	0.014	1						
Mo	-0.442	-0.331	-0.405	0.680	-0.341	-0.127	0.000	0.539	0.244	-0.176	1					
Ni	0.290	0.477	0.425	0.316	0.274	-0.069	0.000	0.717	0.882	0.154	0.147	1				
Pb	-0.345	-0.344	-0.578	0.251	-0.585	-0.087	0.000	0.013	-0.224	-0.182	0.528	-0.218	1			
Sb	-0.191	-0.180	-0.265	0.255	-0.254	0.513	0.000	-0.066	-0.053	-0.304	0.445	-0.223	0.499	1		
W	0.134	0.012	0.083	0.430	0.409	0.295	0.000	0.218	0.008	0.047	0.344	-0.095	-0.061	0.325	1	
Zn	0.247	0.312	0.208	0.785	0.381	-0.131	0.000	0.627	0.385	0.437	0.477	0.351	0.176	0.196	0.425	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Nym Lake Property (22 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.377	1														
Pt	0.089	0.438	1													
Fe	0.253	0.242	0.468	1												
Mn	0.136	0.258	0.302	0.868	1											
Ag	0.072	-0.140	0.022	0.116	-0.067	1										
Cd	-0.071	0.014	0.145	0.500	0.423	0.323	1									
Co	0.205	0.415	0.485	0.888	0.879	0.019	0.424	1								
Cr	0.181	0.295	0.591	0.798	0.605	0.174	0.251	0.716	1							
Cu	0.389	0.746	0.314	0.341	0.210	0.110	0.238	0.373	0.431	1						
Mo	0.405	0.348	0.294	0.580	0.357	0.228	0.134	0.509	0.502	0.403	1					
Ni	0.377	0.722	0.426	0.650	0.546	-0.013	0.384	0.701	0.633	0.803	0.570	1				
Pb	0.151	0.530	0.354	0.663	0.740	-0.069	0.469	0.788	0.334	0.355	0.438	0.629	1			
Sb	0.344	0.517	0.303	0.753	0.774	0.058	0.350	0.802	0.562	0.419	0.406	0.733	0.770	1		
W	-0.244	0.307	0.446	0.015	-0.029	0.060	0.121	0.194	0.096	0.257	0.172	0.161	0.316	-0.087	1	
Zn	0.005	0.162	0.297	0.795	0.847	0.123	0.639	0.785	0.524	0.260	0.398	0.513	0.819	0.647	0.199	1

Correlation matrices for the < 63 µm fraction of the B-horizon at the Powerhouse Zone Property (20 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.328	1														
Pt	-0.087	0.688	1													
Fe	-0.041	-0.110	-0.176	1												
Mn	0.039	0.305	0.676	-0.134	1											
Ag	-0.088	-0.342	-0.074	0.296	-0.098	1										
Cd	0.247	0.034	-0.013	0.725	0.185	0.301	1									
Co	0.369	0.221	0.173	0.523	0.241	-0.035	0.494	1								
Cr	0.417	0.411	0.359	0.241	0.373	-0.323	0.348	0.662	1							
Cu	0.313	0.528	0.471	0.145	0.192	0.051	0.250	0.415	0.376	1						
Mo	-0.102	-0.080	-0.329	0.862	-0.409	0.231	0.647	0.239	0.094	0.027	1					
Ni	0.413	0.259	0.268	0.210	0.332	-0.252	0.232	0.733	0.904	0.236	-0.013	1				
Pb	-0.201	-0.401	-0.400	0.540	-0.332	0.197	0.437	-0.105	-0.211	-0.127	0.654	-0.274	1			
Sb	-0.169	-0.331	-0.369	0.827	-0.330	0.480	0.599	0.224	-0.028	-0.174	0.782	-0.025	0.566	1		
W	-0.117	-0.142	0.160	0.312	0.117	0.473	0.414	0.415	0.244	0.203	0.113	0.324	0.082	0.320	1	
Zn	-0.188	0.021	0.234	0.795	0.275	0.265	0.679	0.489	0.376	0.203	0.589	0.336	0.393	0.594	0.489	1

Correlation matrices for the < 63 µm fraction of the C-horizon till at the Powerhouse Zone Property (20 samples)

	Au	Pd	Pt	Fe	Mn	Ag	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	W	Zn
Au	1															
Pd	0.894	1														
Pt	0.851	0.928	1													
Fe	-0.033	0.136	0.092	1												
Mn	0.582	0.516	0.598	0.204	1											
Ag	0.007	-0.023	0.030	-0.067	0.123	1										
Cd	0.000	0.000	0.000	0.000	0.000	0.000	1									
Co	0.092	0.273	0.255	0.709	0.191	-0.016	0.000	1								
Cr	0.071	0.266	0.274	0.379	0.322	-0.015	0.000	0.597	1							
Cu	0.668	0.717	0.670	0.330	0.503	-0.184	0.000	0.260	0.014	1						
Mo	-0.442	-0.331	-0.405	0.680	-0.341	-0.127	0.000	0.539	0.244	-0.176	1					
Ni	0.290	0.477	0.425	0.316	0.274	-0.069	0.000	0.717	0.882	0.154	0.147	1				
Pb	-0.345	-0.344	-0.578	0.251	-0.585	-0.087	0.000	0.013	-0.224	-0.182	0.528	-0.218	1			
Sb	-0.191	-0.180	-0.265	0.255	-0.254	0.513	0.000	-0.066	-0.053	-0.304	0.445	-0.223	0.499	1		
W	0.134	0.012	0.083	0.430	0.409	0.295	0.000	0.218	0.008	0.047	0.344	-0.095	-0.061	0.325	1	
Zn	0.247	0.312	0.208	0.785	0.381	-0.131	0.000	0.627	0.385	0.437	0.477	0.351	0.176	0.196	0.425	1

APPENDIX M

Single Element Correlation Matrices

Single element correlation matrices for the Nym Lake property

Correlation matrices for Pd at the Nym Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.210	1	
C-horizon	-0.103	0.410	1

Correlation matrices for Pt at the Nym Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.051	1	
C-horizon	-0.307	0.105	1

Correlation matrices for Cu at the Nym Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.122	1	
C-horizon	0.110	0.769	1

Correlation matrices for Ni at the Nym Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.545	1	
C-horizon	0.257	0.688	1

Correlation matrices for Au at the Nym Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.126	1	
C-horizon	-0.080	0.302	1

Single element correlation matrices for the Haines Township property

Correlation matrices for Pd at the Haines Township property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.119	1	
C-horizon	-0.343	-0.155	1

Correlation matrices for Pt at the Haines Township property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.179	1	
C-horizon	0.148	-0.289	1

Correlation matrices for Cu at the Haines Township property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.094	1	
C-horizon	-0.245	0.144	1

Correlation matrices for Ni at the Haines Township property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.369	1	
C-horizon	-0.377	-0.475	1

Correlation matrices for Au at the Haines Township property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.063	1	
C-horizon	0.026	-0.076	1

Single element correlation matrices for the Buck Lake property

Correlation matrices for Pd at the Buck Lake property

	Humus	B-horizon
Humus	1	
B-horizon	-0.100	1

Correlation matrices for Pt at the Buck Lake property

	Humus	B-horizon
Humus	1	
B-horizon	-0.152	1

Correlation matrices for Cu at the Buck Lake property

	Humus	B-horizon
Humus	1	
B-horizon	0.262	1

Correlation matrices for Ni at the Buck Lake property

	Humus	B-horizon
Humus	1	
B-horizon	0.361	1

Correlation matrices for Au at the Buck Lake property

	Humus	B-horizon
Humus	1	
B-horizon	-0.221	1

Single element correlation matrices for the Baker Zone

Correlation matrices for Pd at the Baker Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.188	1

Correlation matrices for Pt at the Baker Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	-0.059	1

Correlation matrices for Cu at the Baker Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.196	1

Correlation matrices for Ni at the Baker Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.406	1

Correlation matrices for Au at the Baker Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	-0.106	1

Single element correlation matrices for the Powerhouse Zone

Correlation matrices for Pd at the Powerhouse Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	-0.180	1

Correlation matrices for Pt at the Powerhouse Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.029	1

Correlation matrices for Cu at the Powerhouse Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.486	1

Correlation matrices for Ni at the Powerhouse Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	0.399	1

Correlation matrices for Au at the Powerhouse Zone

	B-horizon	C-horizon
B-horizon	1	
C-horizon	-0.083	1

Single element correlation matrices for the Legris Lake property

Correlation matrices for Pd at the Legris Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.301	1	
C-horizon	-0.436	0.144	1

Correlation matrices for Pt at the Legris Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.199	1	
C-horizon	-0.091	0.368	1

Correlation matrices for Cu at the Legris Lake property

	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	-0.147	1	
C-horizon	-0.153	0.546	1

Correlation matrices for Ni at the Legris Lake property

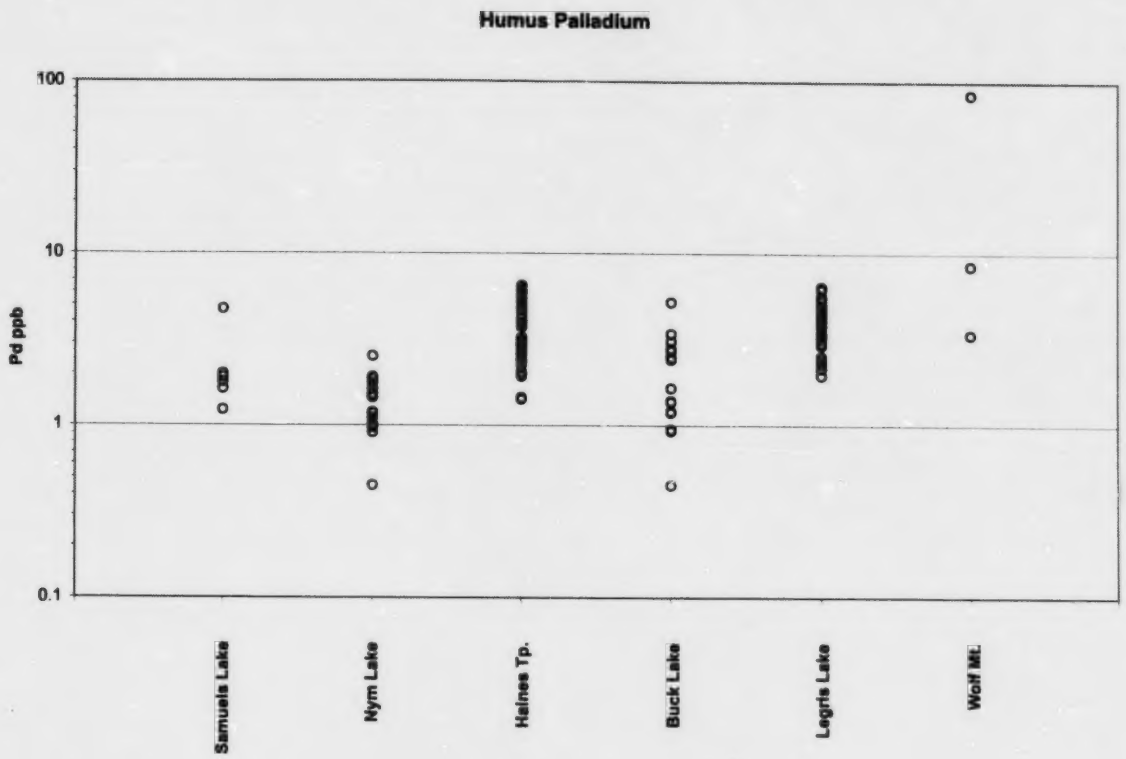
	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.019	1	
C-horizon	0.261	0.326	1

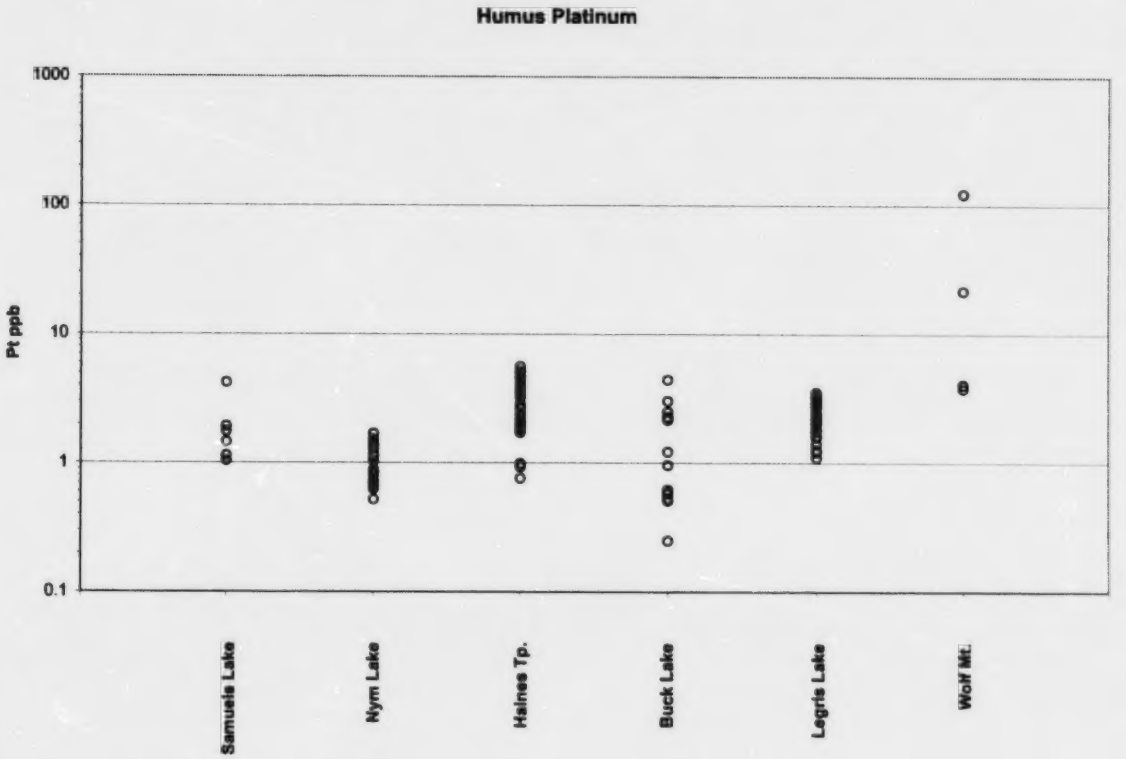
Correlation matrices for Au at the Legris Lake property

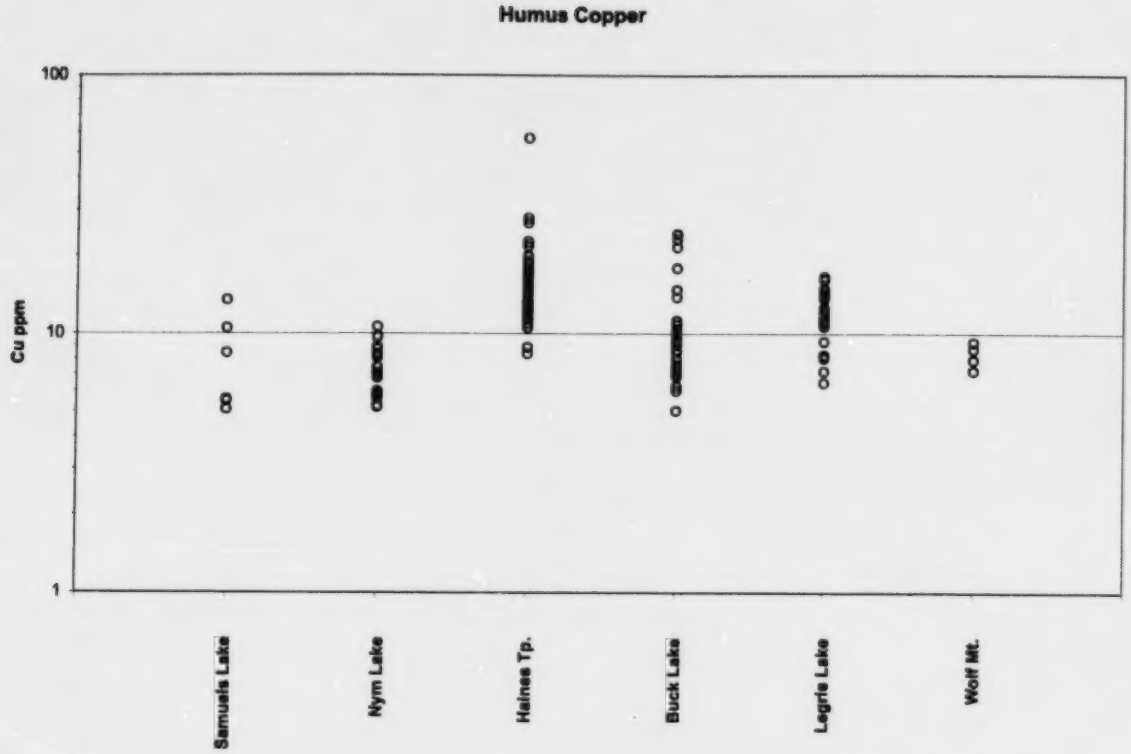
	Humus	B-horizon	C-horizon
Humus	1		
B-horizon	0.314	1	
C-horizon	-0.037	0.242	1

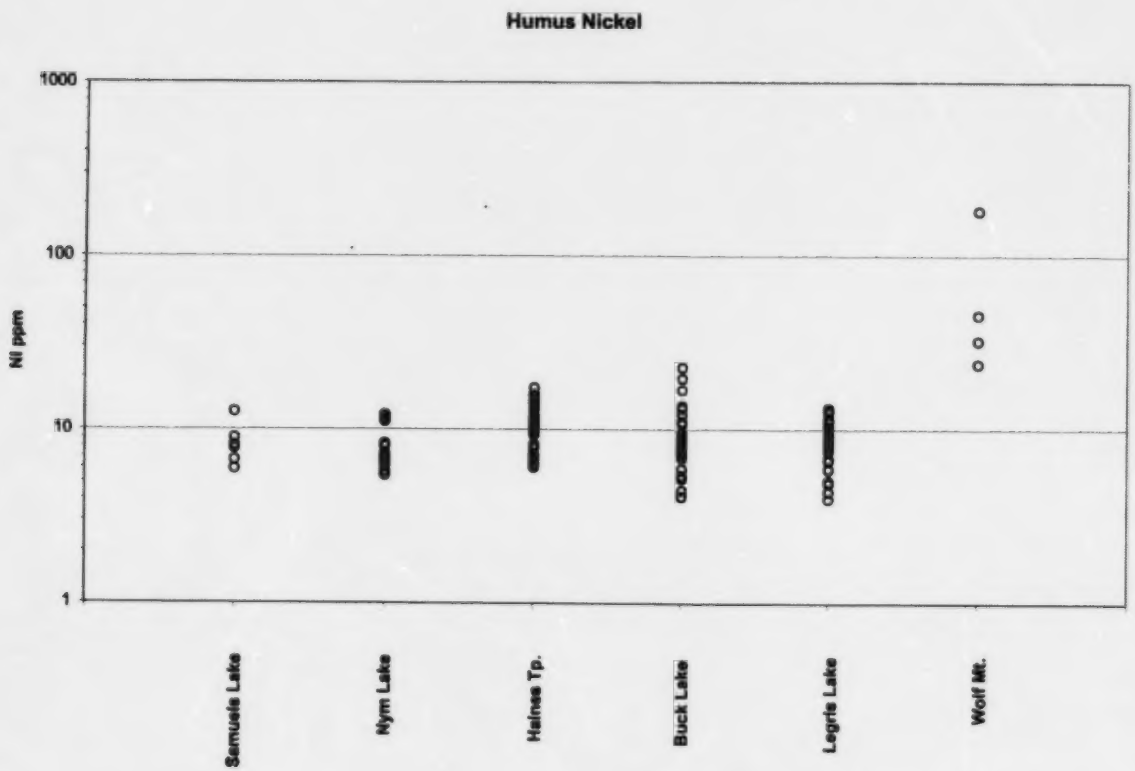
APPENDIX N

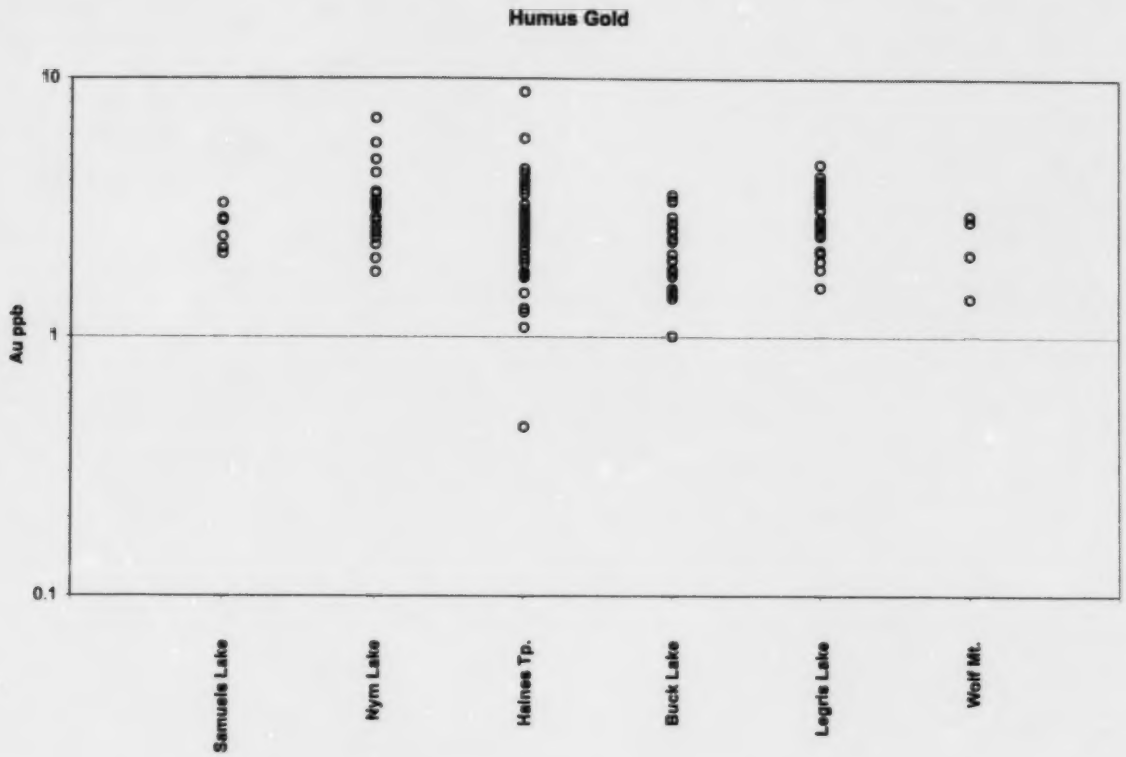
Property Comparison Plots


Humus Palladium
Pd ppb
100
10
1
0.1
Samuels Lake
Nym Lake
Haines Tp.
Buck Lake
Legris Lake
Wolf Mt.

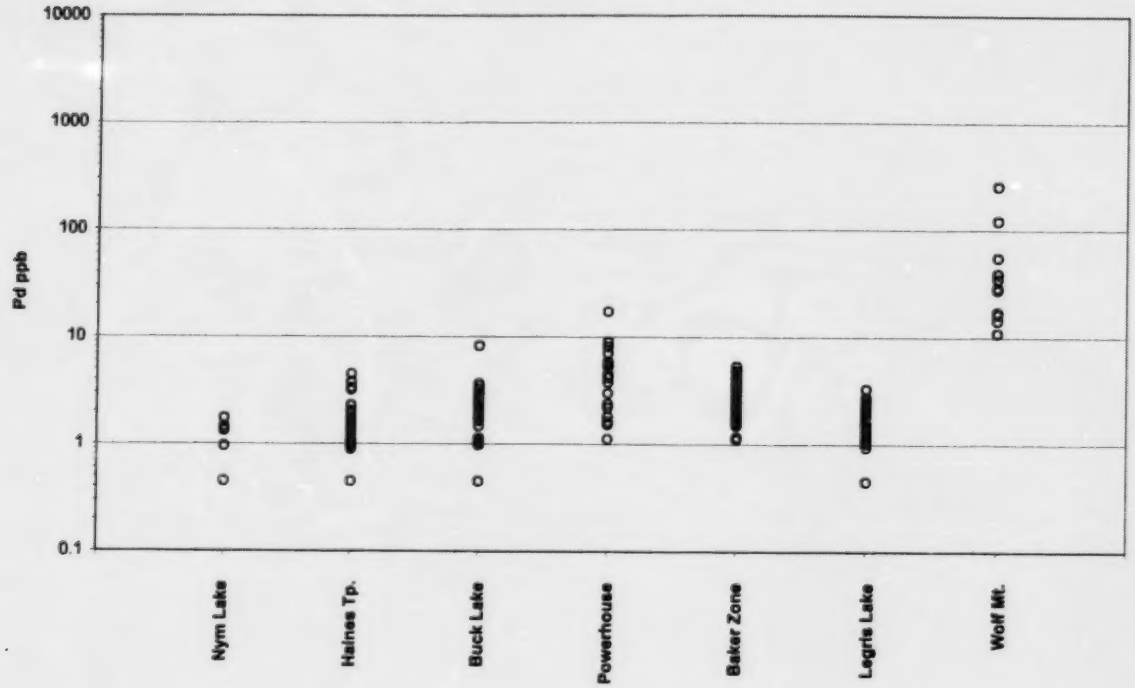

Humus Platinum
Pt ppb
1000
100
10
1
0.1
Samuels Lake
Nym Lake
Haines Tp.
Buck Lake
Legris Lake
Wolf Mt.


Humus Copper
Cu ppm
100
10
1
Samuels Lake
Nym Lake
Haines Tp.
Buck Lake
Legris Lake
Wolf Mt.

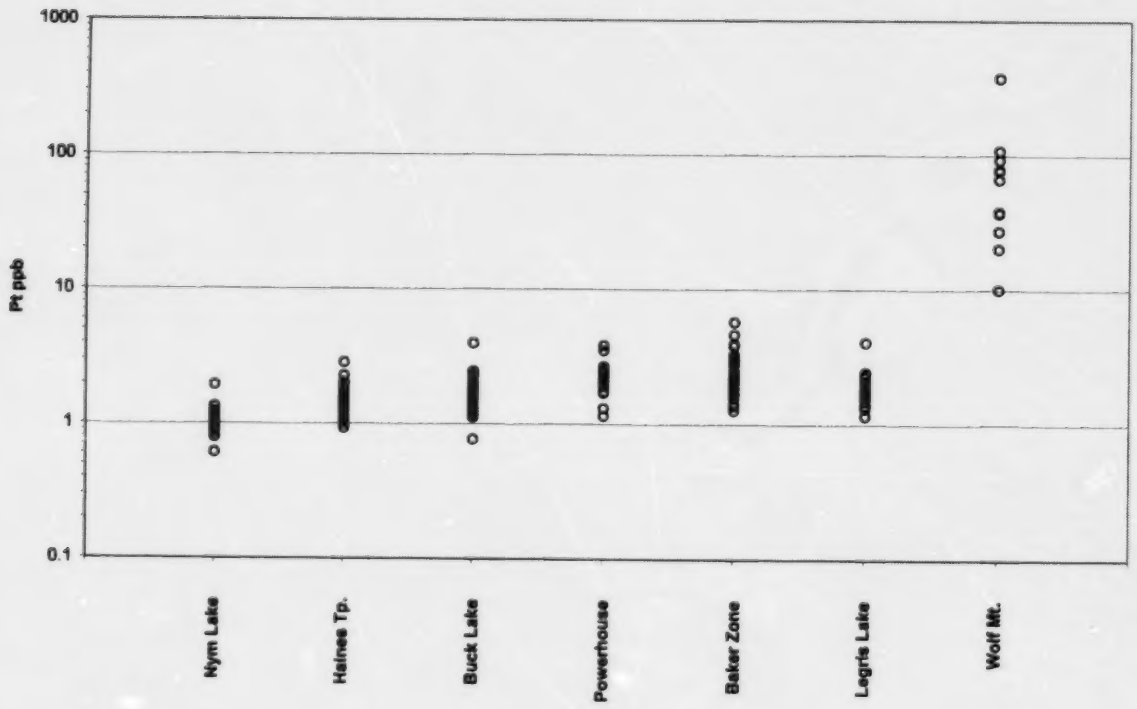

Humus Nickel
Ni ppm
1000
100
10
1
Samuels Lake
Nym Lake
Haines Tp.
Buck Lake
Legris Lake
Wolf Mt.


Humus Gold
Au ppb
10
1
0.1
Samuels Lake
Nym Lake
Haines Tp.
Buck Lake
Legris Lake
Wolf Mt.

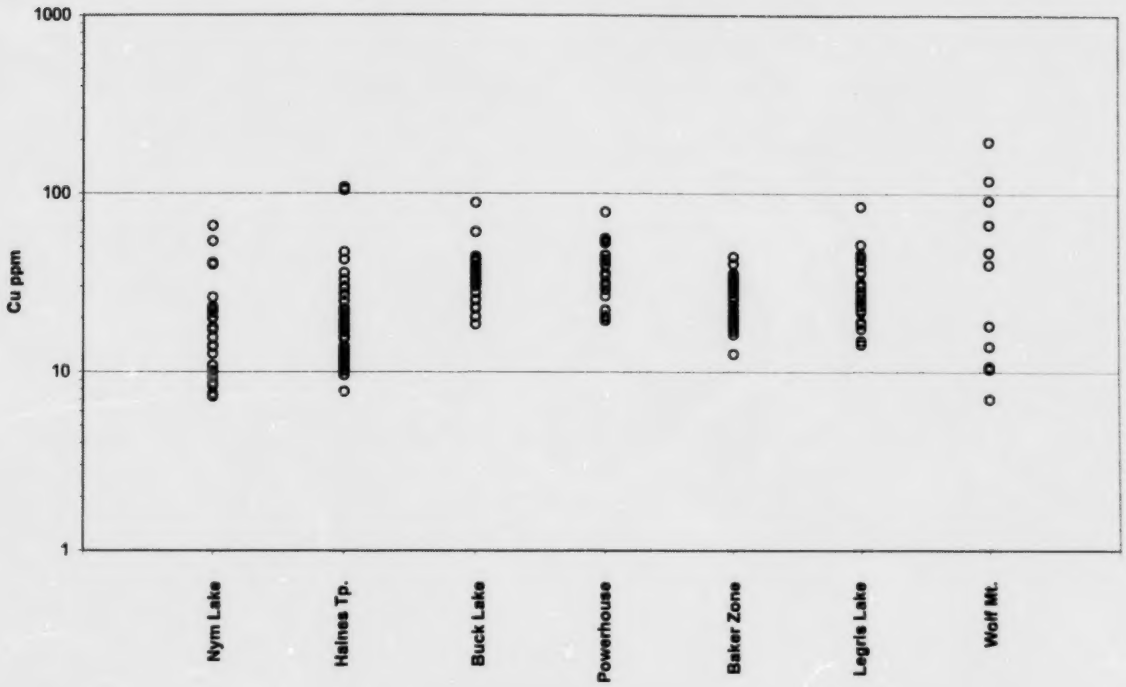
B-HORIZON PALLADIUM



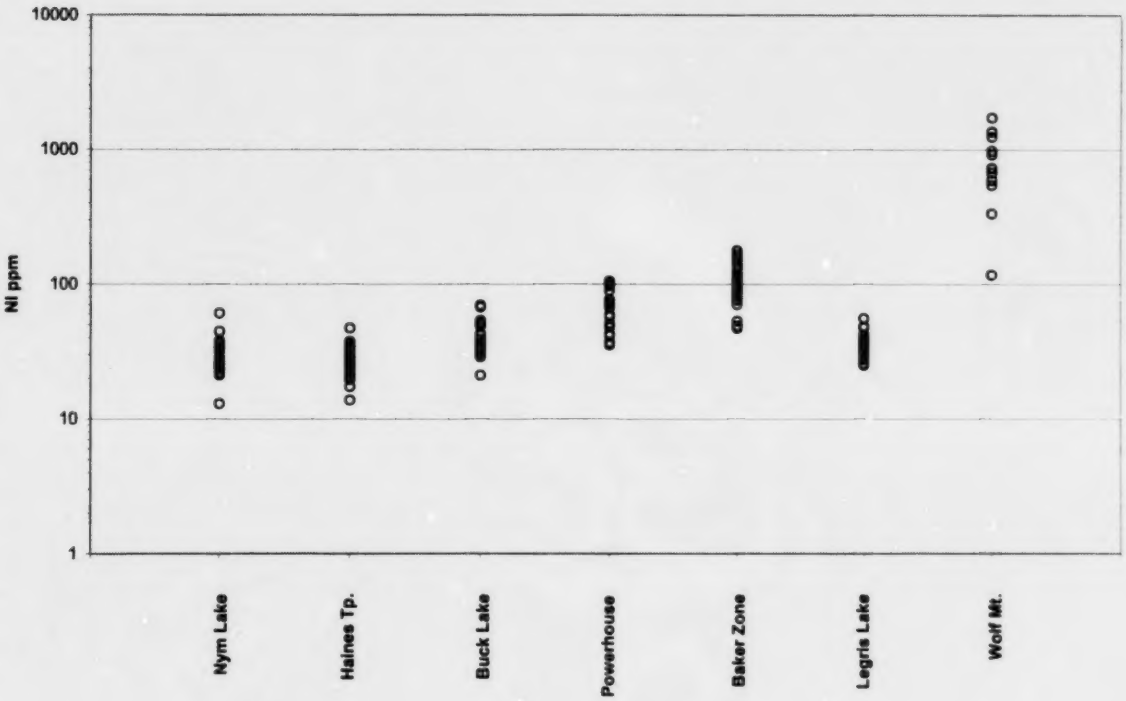
B-HORIZON PLATINUM



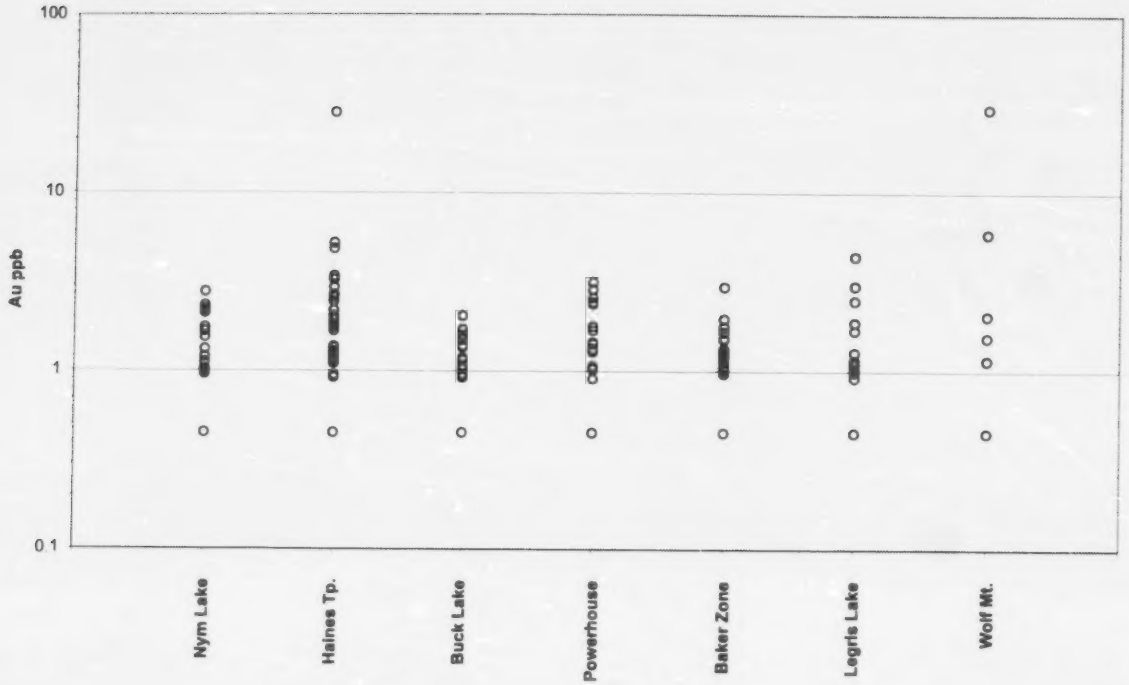
B-HORIZON COPPER

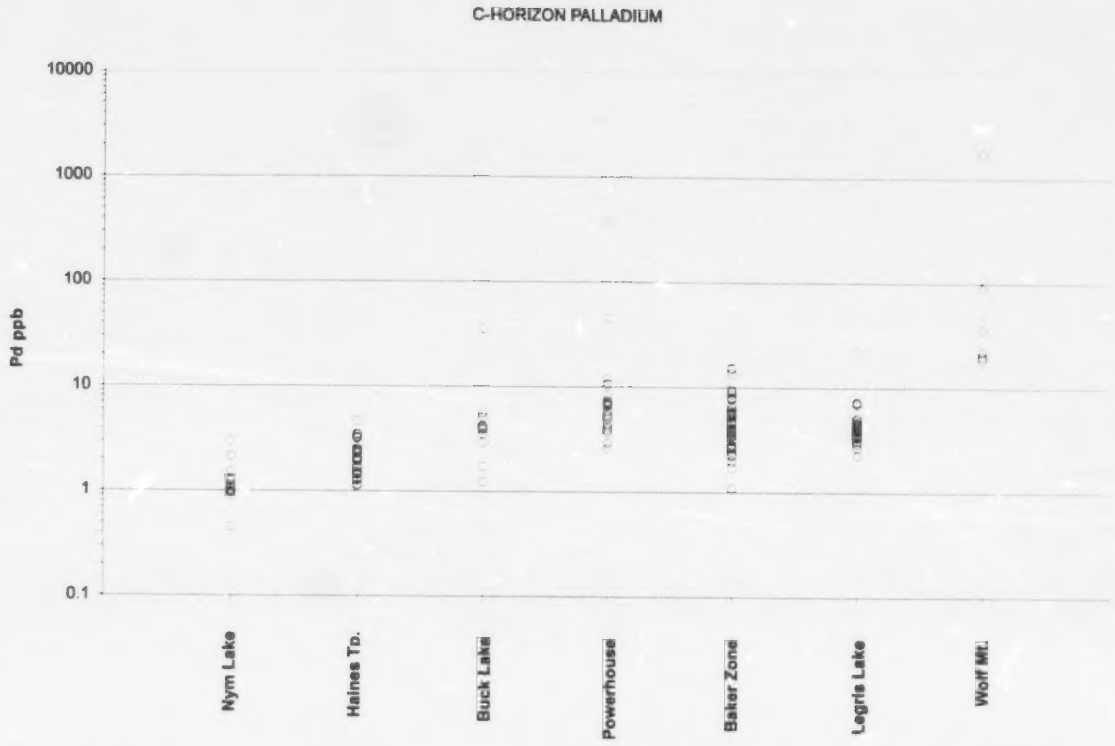


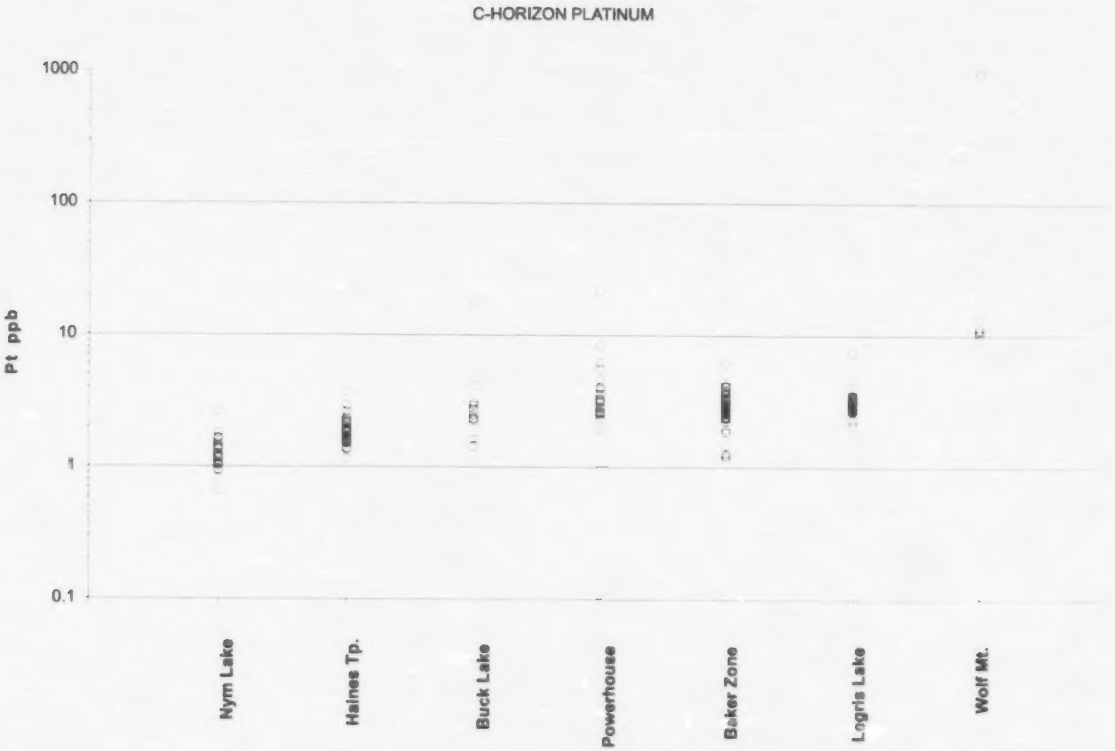
B-HORIZON NICKEL



B-HORIZON GOLD

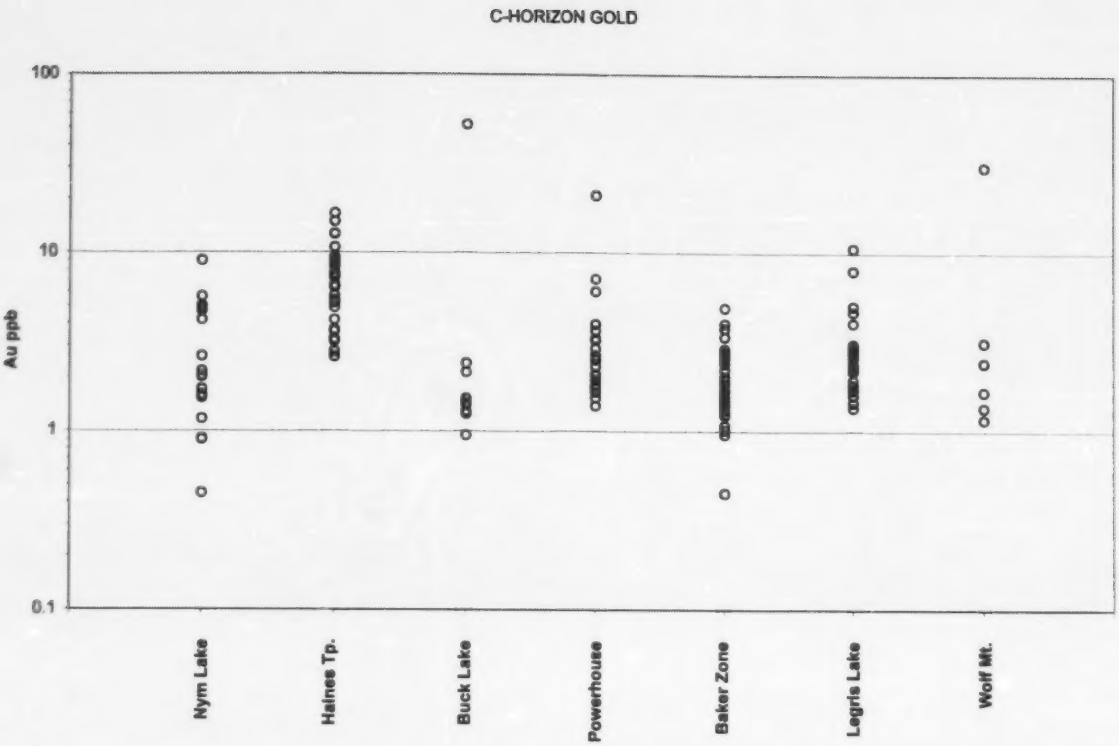



C-HORIZON PALLADIUM
Pd ppb
10000
1000
100
10
1
0.1
Nym Lake
Haines Tp.
Buck Lake
Powerhouse
Baker Zone
Legris Lake
Wolf Mt.


C-HORIZON PLATINUM
Pt ppb
1000
100
10
1
0.1
Nym Lake
Haines Tp.
Buck Lake
Powerhouse
Baker Zone
Legris Lake
Wolf Mt.

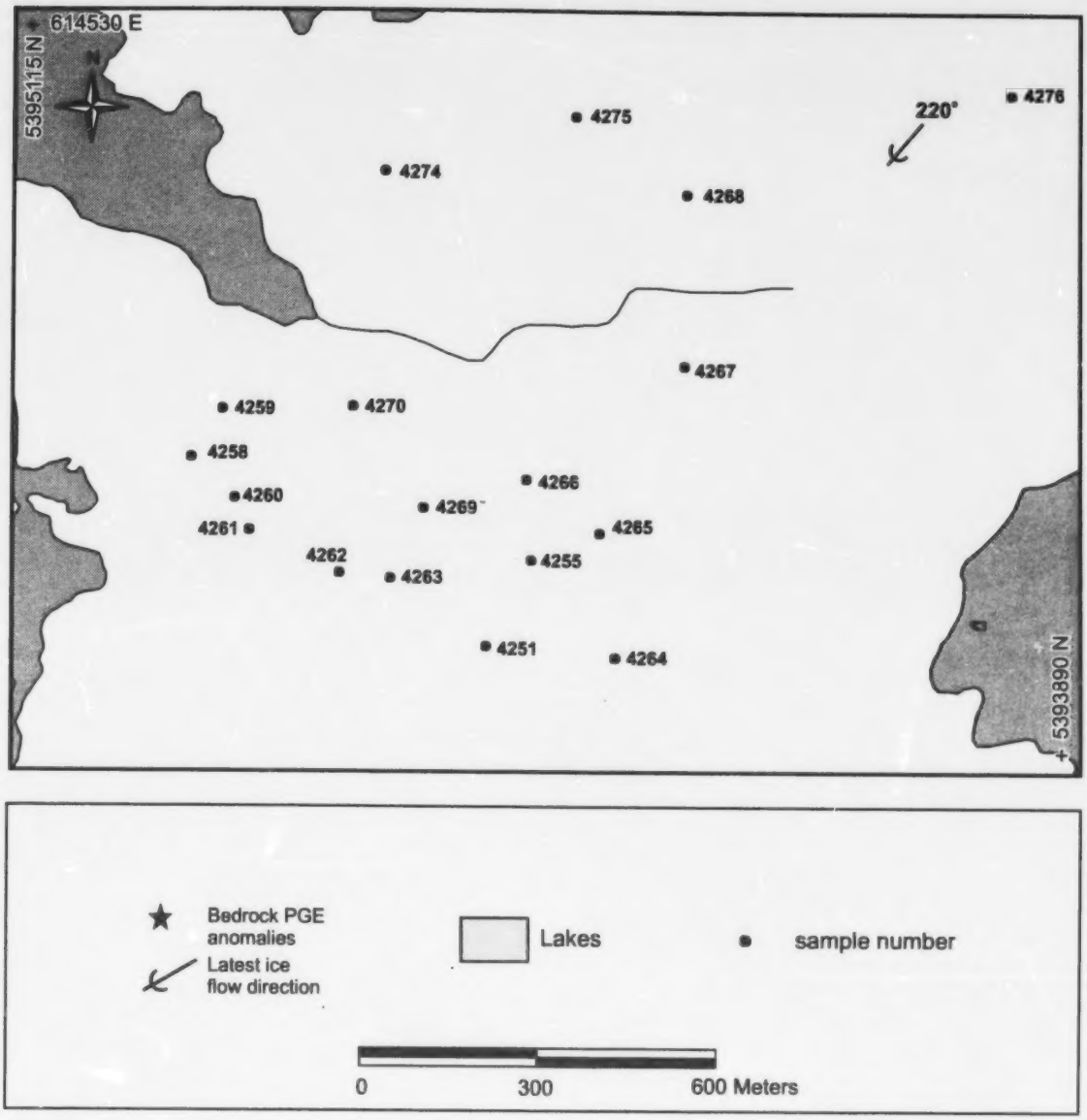
C-HORIZON COPPER

C-HORIZON NICKEL

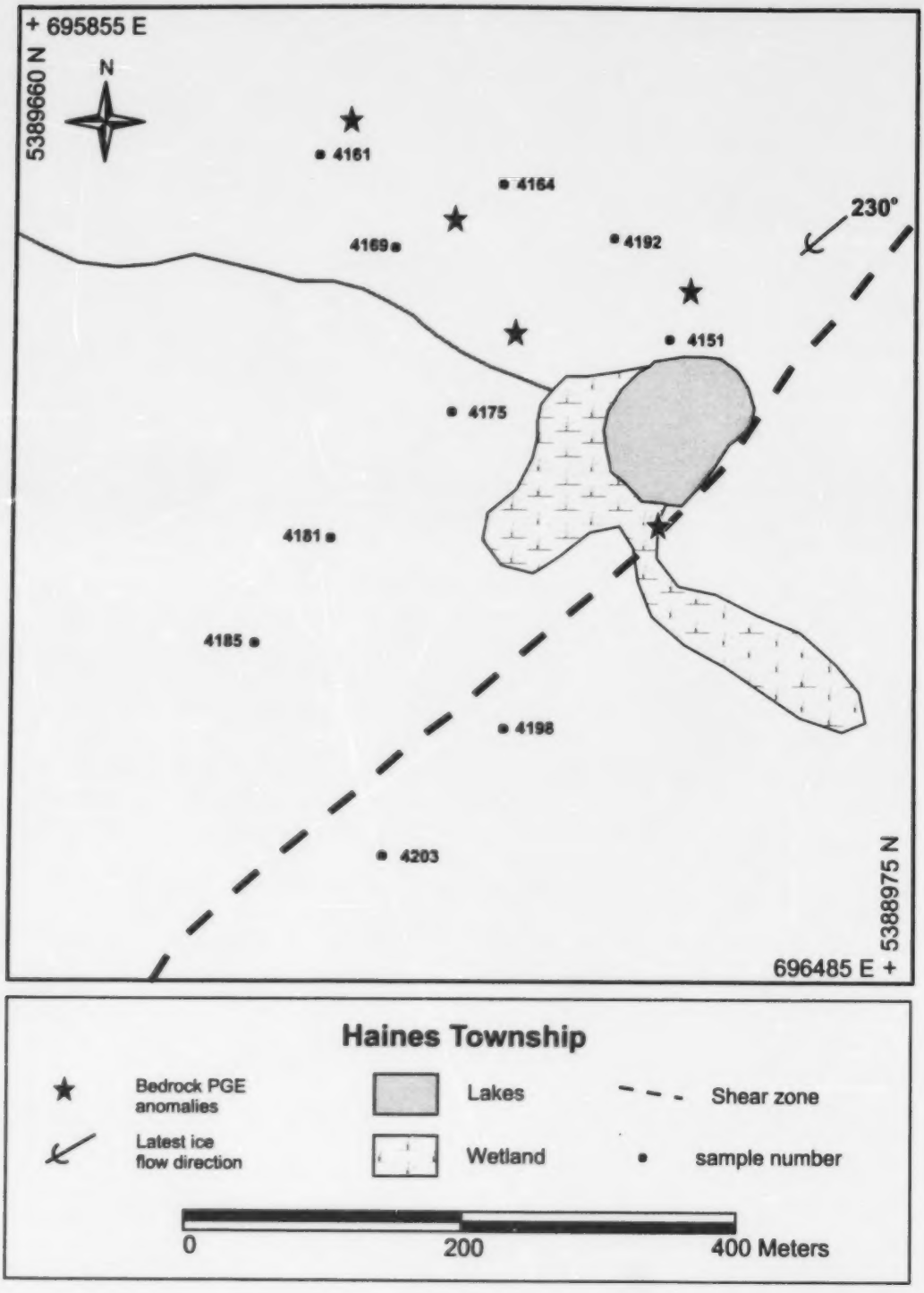

C-HORIZON GOLD
100
10
1
0.1
Au ppb
Nym Lake
Haines Tp.
Buck Lake
Powerhouse
Baker Zone
Legris Lake
Wolf Mt.

APPENDIX O

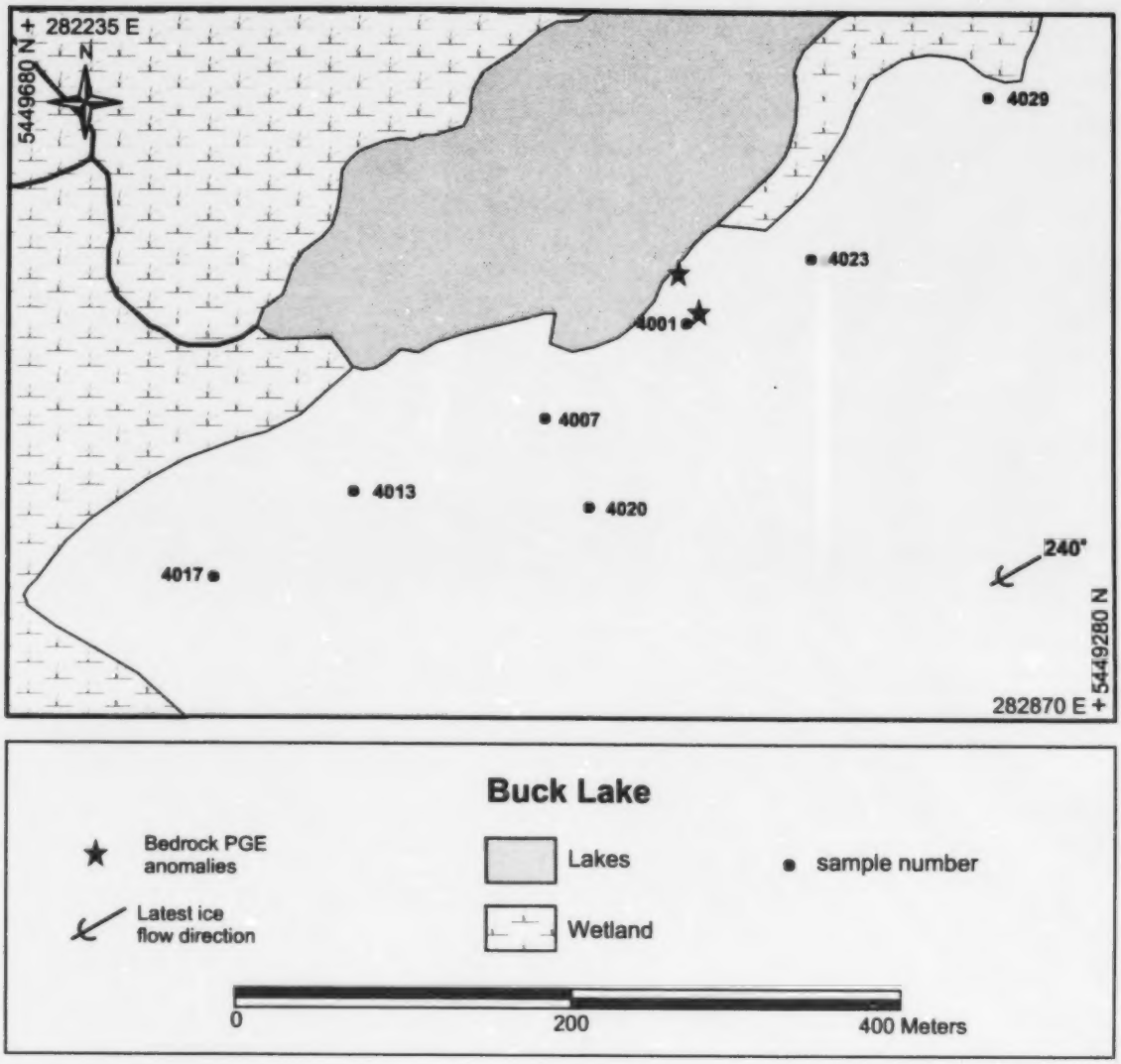
C-horizon Till Heavy Mineral Concentrate (HMC) Sample Site Locations



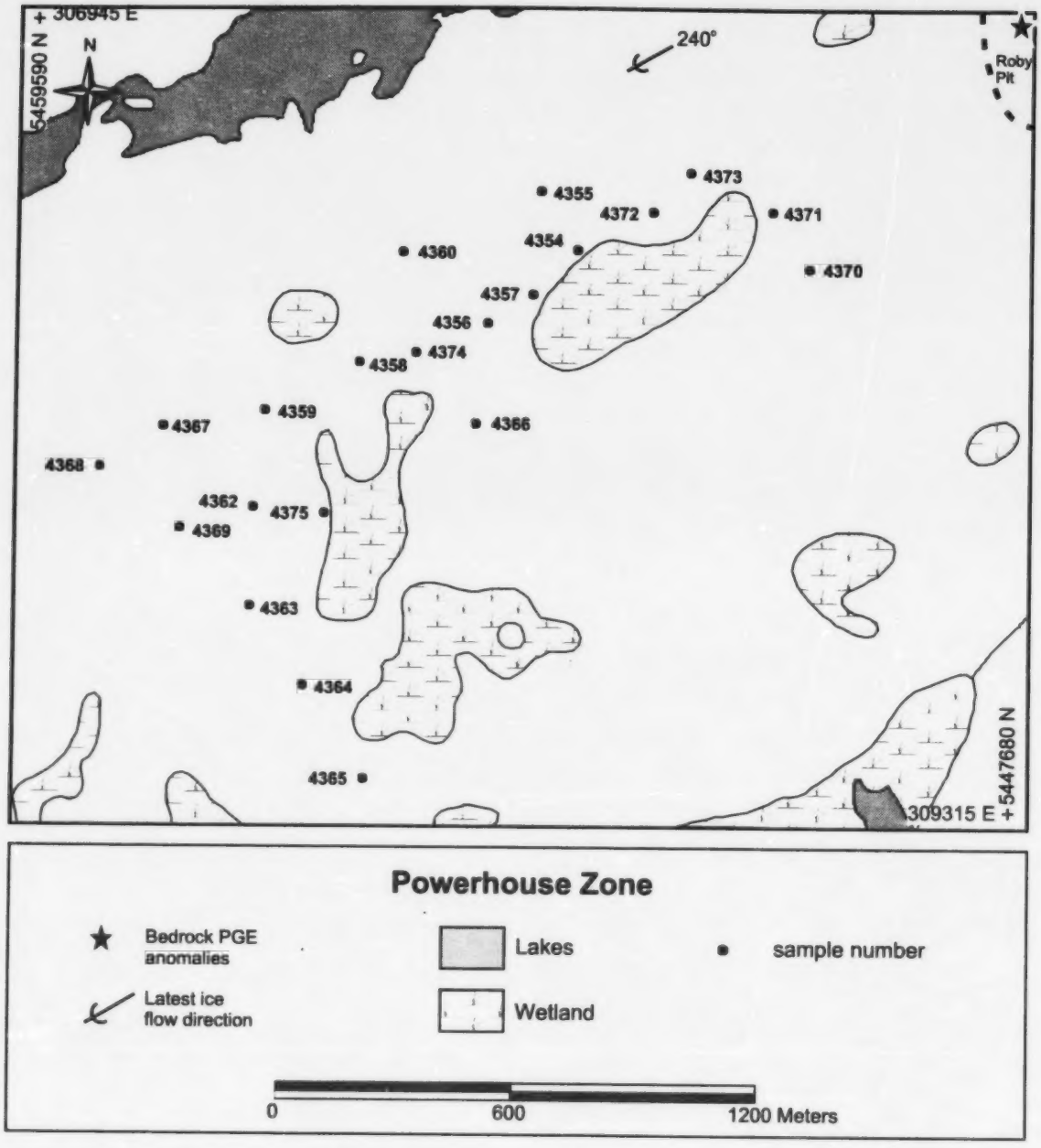
Nym Lake C-horizon till HMC sample locations.



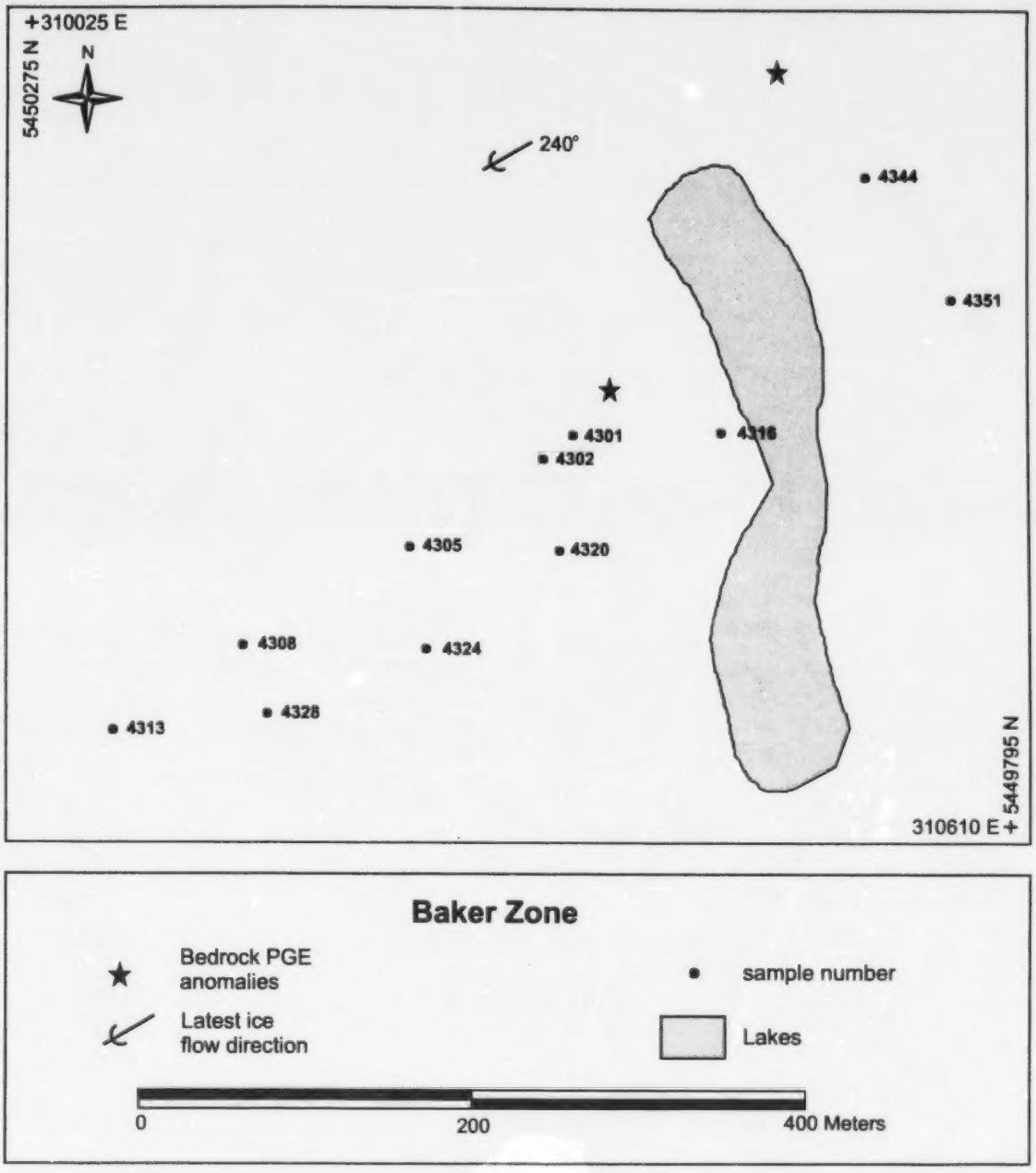
Haines township C-horizon till HMC sample locations.



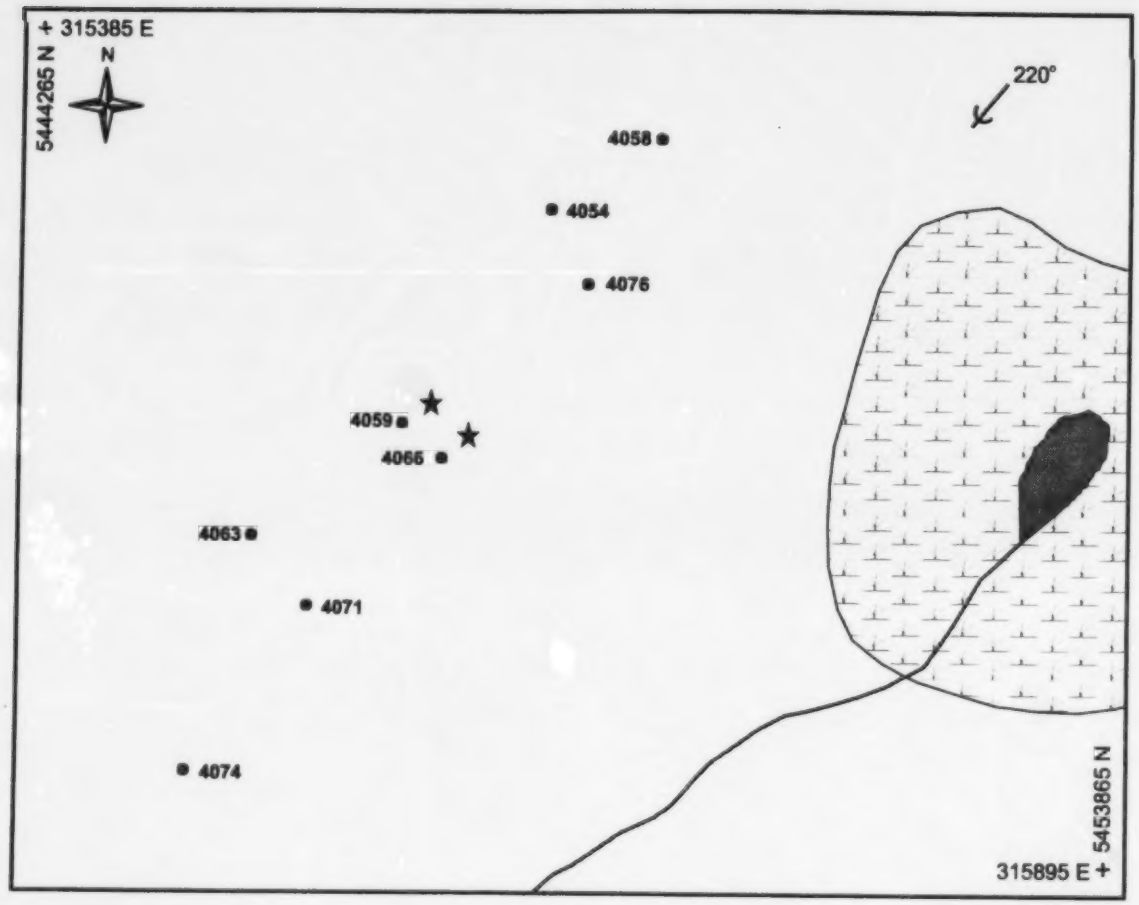
Buck Lake C-horizon till HMC sample locations.

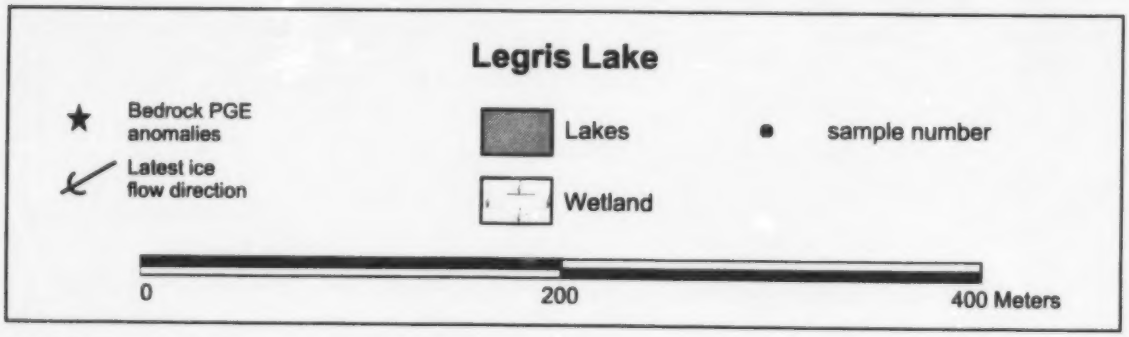


Powerhouse Zone C-horizon till HMC sample locations.

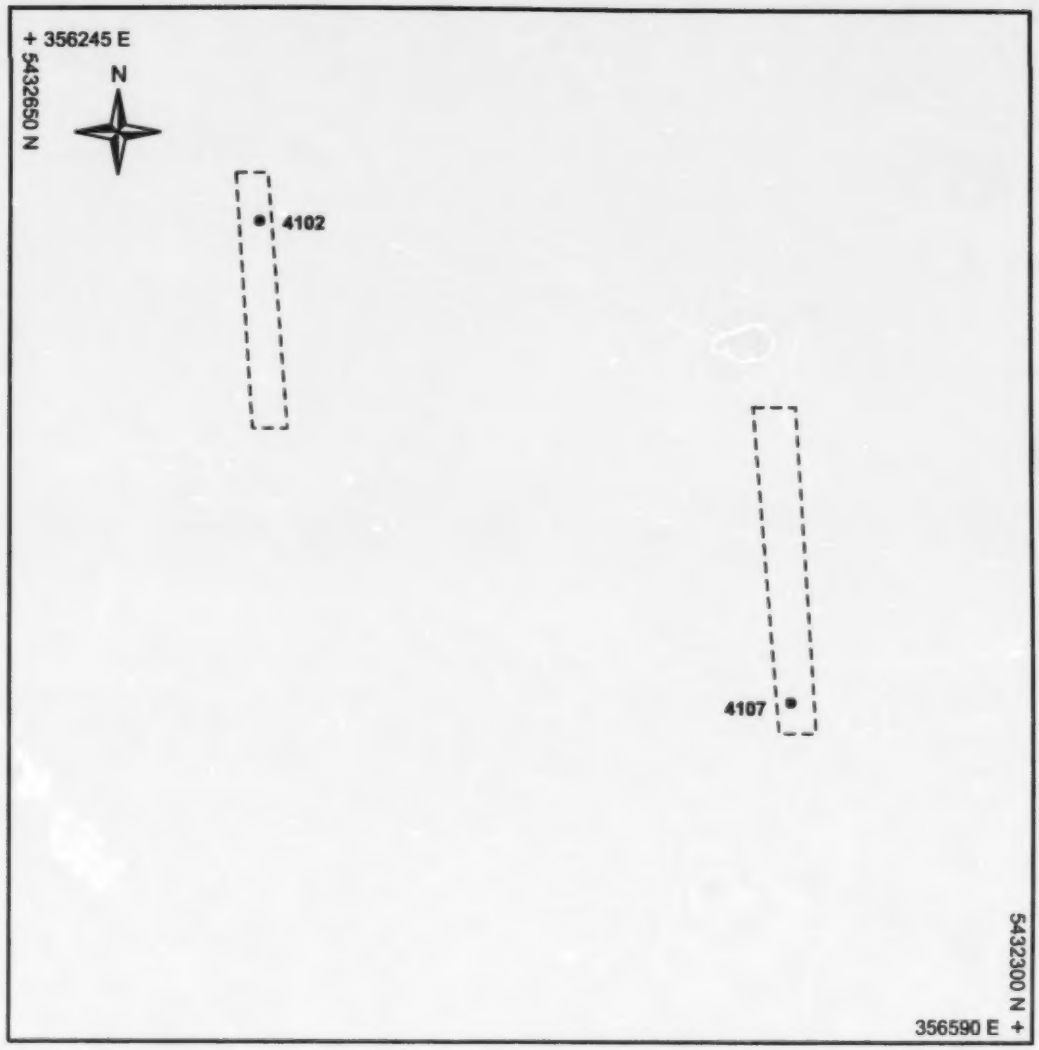


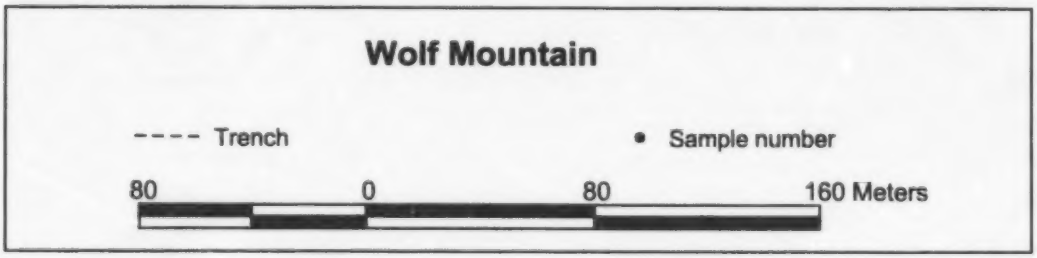
Baker Zone C-horizon till HMC sample locations.





Legris Lake C-Horizon till HMC sample locations.





Wolf Mountain C-horizon till HMC sample locations.

APPENDIX P

Platinum Group Minerals (PGM) Observed in Pan Concentrate

* All samples are oxidized; therefore only native PGE minerals (Not PGE arsenides or tellurides) are likely to be preserved.

Sample Number	Mineral *	Number of Grains	TOTAL GRAINS
00-CAS- 4001	None observed	0	0
00-CAS- 4007	None observed	0	0
00-CAS- 4013	None observed	0	0
00-CAS- 4017	None observed	0	0
00-CAS- 4020	None observed	0	0
00-CAS- 4023	None observed	0	0
00-CAS- 4029	None observed	0	0
00-CAS- 4054	None observed	0	0
00-CAS- 4058	None observed	0	0
00-CAS- 4059	None observed	0	0
00-CAS- 4063	None observed	0	0
00-CAS- 4066	Native platinum	2	2
00-CAS- 4071	None observed	0	0
00-CAS- 4074	None observed	0	0
00-CAS- 4076	None observed	0	0
00-CAS- 4102	None observed	0	0
00-CAS- 4107	None observed	0	0
00-CAS- 4151	None observed	0	0
00-CAS- 4161	None observed	0	0
00-CAS- 4164	None observed	0	0
00-CAS- 4165	None observed	0	0
00-CAS- 4169	None observed	0	0
00-CAS- 4175	None observed	0	0
00-CAS- 4181	None observed	0	0
00-CAS- 4185	None observed	0	0
00-CAS- 4192	None observed	0	0
00-CAS- 4198	None observed	0	0
00-CAS- 4203	None observed	0	0
00-CAS- 4251	None observed	0	0
00-CAS- 4255	None observed	0	0
00-CAS- 4256	None observed	0	0
00-CAS- 4258	None observed	0	0
00-CAS- 4259	None observed	0	0
00-CAS- 4260	None observed	0	0
00-CAS- 4261	None observed	0	0
00-CAS- 4262	None observed	0	0
00-CAS- 4263	Sperrylite	2	2
00-CAS- 4264	None observed	0	0
00-CAS- 4265	None observed	0	0
00-CAS- 4266	None observed	0	0
00-CAS- 4267	None observed	0	0
00-CAS- 4268	None observed	0	0
00-CAS- 4269	None observed	0	0
00-CAS- 4270	None observed	0	0
00-CAS- 4274	None observed	0	0
00-CAS- 4275	None observed	0	0
00-CAS- 4276	None observed	0	0
00-CAS- 4301	None observed	0	0
00-CAS- 4302	None observed	0	0
00-CAS- 4305	None observed	0	0

Sample Number	Mineral *	Number of Grains	TOTAL GRAINS
00-CAS- 4308	None observed	0	0
00-CAS- 4313	None observed	0	0
00-CAS- 4316	None observed	0	0
00-CAS- 4320	None observed	0	0
00-CAS- 4324	None observed	0	0
00-CAS- 4328	None observed	0	0
00-CAS- 4344	None observed	0	0
00-CAS- 4351	None observed	0	0
00-CAS- 4354	Sperrylite	1	1
00-CAS- 4355	None observed	0	0
00-CAS- 4356	None observed	0	0
00-CAS- 4357	None observed	0	0
00-CAS- 4358	None observed	0	0
00-CAS- 4359	None observed	0	0
00-CAS- 4360	None observed	0	0
00-CAS- 4361	None observed	0	0
00-CAS- 4362	None observed	0	0
00-CAS- 4363	None observed	0	0
00-CAS- 4364	None observed	0	0
00-CAS- 4365	None observed	0	0
00-CAS- 4366	None observed	0	0
00-CAS- 4367	None observed	0	0
00-CAS- 4368	None observed	0	0
00-CAS- 4369	None observed	0	0
00-CAS- 4370	None observed	0	0
00-CAS- 4371	None observed	0	0
00-CAS- 4372	None observed	0	0
00-CAS- 4373	None observed	0	0

APPENDIX Q

Gold Grain Data

Sample Number	Number of Visible Gold Grains				%	%	Total ppb
	Total	Reshaped	Modified	Pristine	Reshaped/Total	Modified+Pristine/Total	Calculated
00-CAS- 4001	42	35	3	4	83	17	11
00-CAS- 4007	1	1	0	0	100	0	1
00-CAS- 4013	3	3	0	0	100	0	0
00-CAS- 4017	3	3	0	0	100	0	0
00-CAS- 4020	2	2	0	0	100	0	0
00-CAS- 4023	2	2	0	0	100	0	0
00-CAS- 4029	21	20	0	1	95	5	20
00-CAS- 4054	16	14	0	2	88	13	6
00-CAS- 4058	7	3	2	2	43	57	2
00-CAS- 4059	2	1	0	1	50	50	2
00-CAS- 4063	1	1	0	0	100	0	0
00-CAS- 4066	4	1	0	3	25	75	1
00-CAS- 4071	0	0	0	0	0	0	0
00-CAS- 4074	4	2	0	2	50	50	1
00-CAS- 4076	1	1	0	0	100	0	0
00-CAS- 4102	0	0	0	0	0	0	0
00-CAS- 4107	0	0	0	0	0	0	0
00-CAS- 4151	7	2	0	5	29	71	1
00-CAS- 4161	10	4	1	5	40	60	9
00-CAS- 4164	13	3	0	10	23	77	3
00-CAS- 4165	8	1	0	7	13	88	2
00-CAS- 4169	3	2	0	1	67	33	3
00-CAS- 4175	18	6	1	11	33	67	9
00-CAS- 4181	16	6	1	9	38	63	2
00-CAS- 4185	19	6	0	13	32	68	6
00-CAS- 4192	10	3	1	6	30	70	4
00-CAS- 4198	12	2	1	9	17	83	2
00-CAS- 4203	13	4	0	9	31	69	3
00-CAS- 4251	3	1	1	1	33	67	54
00-CAS- 4255	4	1	0	3	25	75	1027
00-CAS- 4256	6	3	0	3	50	50	25
00-CAS- 4258	4	3	0	1	75	25	10
00-CAS- 4259	21	9	0	12	43	57	75
00-CAS- 4260	2	2	0	0	100	0	12
00-CAS- 4261	6	4	0	2	67	33	31
00-CAS- 4262	11	6	1	4	55	45	20
00-CAS- 4263	12	10	1	1	83	17	18
00-CAS- 4264	4	3	0	1	75	25	2
00-CAS- 4265	7	5	1	1	71	29	11
00-CAS- 4266	5	4	1	0	80	20	283
00-CAS- 4267	0	0	0	0	0	0	0
00-CAS- 4268	10	5	3	2	50	50	16
00-CAS- 4269	3	2	1	0	67	33	6
00-CAS- 4270	4	4	0	0	100	0	12
00-CAS- 4274	17	15	1	1	88	12	34
00-CAS- 4275	7	6	0	1	86	14	18
00-CAS- 4276	2	1	0	1	50	50	17
00-CAS- 4301	5	2	2	1	40	60	1
00-CAS- 4302	1	1	0	0	100	0	0

Sample Number	Number of Visible Gold Grains				%	%	Total ppb
	Total	Reshaped	Modified	Pristine	Reshaped/Total	Modified+Pristine/Total	Calculated
00-CAS- 4305	0	0	0	0	0	0	0
00-CAS- 4308	1	1	0	0	100	0	0
00-CAS- 4313	0	0	0	0	0	0	0
00-CAS- 4316	0	0	0	0	0	0	0
00-CAS- 4320	0	0	0	0	0	0	0
00-CAS- 4324	0	0	0	0	0	0	0
00-CAS- 4328	0	0	0	0	0	0	0
00-CAS- 4344	1	0	0	1	0	100	0
00-CAS- 4351	0	0	0	0	0	0	0
00-CAS- 4354	0	0	0	0	0	0	0
00-CAS- 4355	0	0	0	0	0	0	0
00-CAS- 4356	0	0	0	0	0	0	0
00-CAS- 4357	1	1	0	0	100	0	0
00-CAS- 4358	0	0	0	0	0	0	0
00-CAS- 4359	1	1	0	0	100	0	0
00-CAS- 4360	3	2	0	1	67	33	4
00-CAS- 4361	0	0	0	0	0	0	0
00-CAS- 4362	2	0	2	0	0	100	0
00-CAS- 4363	0	0	0	0	0	0	0
00-CAS- 4364	0	0	0	0	0	0	0
00-CAS- 4365	0	0	0	0	0	0	0
00-CAS- 4366	2	1	0	1	50	50	1
00-CAS- 4367	0	0	0	0	0	0	0
00-CAS- 4368	0	0	0	0	0	0	0
00-CAS- 4369	2	2	0	0	100	0	0
00-CAS- 4370	6	3	1	2	50	50	5
00-CAS- 4371	29	5	10	14	17	83	3
00-CAS- 4372	2	0	0	2	0	100	1
00-CAS- 4373	0	0	0	0	0	0	0

APPENDIX R

Metamorphic or Magmatic Massive Sulphide Indicator Minerals (MMSIM®)

All Chromites are reported in the KIM spreadsheet, Appendix S
All Cr-diopsides are reported in the KIM spreadsheet, Appendix S
Tr is Trace
The numbers in brackets indicate the number of grains picked
* species not rigorously picked; excluded from total

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm			Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				
	>1.0 amp		<1.0 amp	>1 amp				
	%Chalcopyrite	%Pyrite	%Goethite	# Grains + Colour Spinel	Colour Spinel	Gahnite	Cr-Andradite	Mn-epidote
00-CAS- 4001	0	Tr(~20 gr)	0	0		0		
00-CAS- 4007	0	10(~400 gr)	0	0		0		
00-CAS- 4013	0	0.5(~100 gr)	0	0		0		
00-CAS- 4017	0	Tr(~25 gr)	0	0		0		
00-CAS- 4020	0	0.5(~100 gr)	0	0		0		
00-CAS- 4023	0	0	0	0		0		
00-CAS- 4029	0	2(~100 gr)	Tr	1 blue-green	1	0		
00-CAS- 4054	0	Tr(3 gr)	0	0		0		
00-CAS- 4058	0	Tr(2 gr)	0	0		0		
00-CAS- 4059	0	0	0	0		0		
00-CAS- 4063	0	Tr(5 gr)	0	0		0		
00-CAS- 4066	0	Tr(3 gr)	0	0		0		
00-CAS- 4071	0	Tr(~10 gr)	0	0		0		
00-CAS- 4074	0	Tr(5 gr)	0	0		0		Tr (1 gr)
00-CAS- 4076	0	1(~200 gr)	0	0		0		Tr (1 gr)
00-CAS- 4102	0	0	0	0		0		
00-CAS- 4107	Tr(8 gr)	Tr(~40 gr)	0	0		0		
00-CAS- 4151	0	0	0	0		0		
00-CAS- 4161	0	Tr(~10 gr)	0	1 pale blue	1	?		Tr (1 gr)
00-CAS- 4164	Tr(1 gr)	Tr(~10 gr)	0	0		0		
00-CAS- 4165	0	Tr(~10 gr)	0	0		0		
00-CAS- 4169	0	0	0	1 blue	1	0		
00-CAS- 4175	0	Tr(5 gr)	0	0		0		
00-CAS- 4181	0	Tr(~20 gr)	0	0		0		
00-CAS- 4185	0	Tr(5 gr)	0	0		0		
00-CAS- 4192	0	Tr(5 gr)	0	0		0		
00-CAS- 4198	0	Tr(~100 gr)	0	1 pale blue	1	?		
00-CAS- 4203	0	Tr(~15 gr)	0	0		0		
00-CAS- 4251	0	0	0	0		0		
00-CAS- 4255	0	Tr(5 gr)	0	0		0		
00-CAS- 4256	0	Tr(5 gr)	Tr	0		0		
00-CAS- 4258	0	0	Tr	0		0		
00-CAS- 4259	0	Tr(3 gr)	Tr	0		0		

Sample Number	Mg/Mn/Al/Cr Minerals 0.25-0.5 mm						
	>1 amp			>0.8 amp	<0.8 amp		
	% Red Rutile	%Kyanite	% Sillimanite	%Staurolite	%Spessartine	% Fayalite	% Orthopyroxene
00-CAS- 4001	0	0	0	0	0	15	Tr
00-CAS- 4007	0	0	0	0	0	30	Tr
00-CAS- 4013	Tr(2 gr)	0	0	0	0	20	Tr
00-CAS- 4017	Tr(1 gr)	0	0	0	0	10	Tr
00-CAS- 4020	0	0	0	0	0	15	Tr
00-CAS- 4023	0	0	0	0	0	Tr	Tr
00-CAS- 4029	Tr(3 gr)	0	0	0	0	15	Tr
00-CAS- 4054	0	Tr	0	0	0	40	Tr
00-CAS- 4058	0	0	0	0	0	50	Tr
00-CAS- 4059	0	0	0	0	0	30	Tr
00-CAS- 4063	0	0	0	0	0	10	Tr
00-CAS- 4066	Tr(1 gr)	0	0	0	0	15	Tr
00-CAS- 4071	0	0	0	0	0	15	Tr
00-CAS- 4074	0	0	0	0	0	20	0
00-CAS- 4076	0	0	0	0	0	20	Tr
00-CAS- 4102	0	0	0	0	0	1	Tr
00-CAS- 4107	0	0	0	0	0	5	Tr
00-CAS- 4151	Tr(2 gr)	0	0	Tr	Tr	5	Tr
00-CAS- 4161	0	0	0	Tr	0	5	Tr
00-CAS- 4164	Tr(1 gr)	0	0	Tr	0	3	Tr
00-CAS- 4165	0	0	0	0	0	10	Tr
00-CAS- 4169	0	Tr	Tr	Tr	0	2	Tr
00-CAS- 4175	0	Tr	Tr	Tr	0	10	Tr
00-CAS- 4181	0	0	Tr	Tr	0	4	Tr
00-CAS- 4185	0	0	0	Tr	0	8	Tr
00-CAS- 4192	0	0	Tr	Tr	0	4	0
00-CAS- 4198	0	0	Tr	Tr	0	3	Tr
00-CAS- 4203	0	0	Tr	Tr	0	3	Tr
00-CAS- 4251	0	0	Tr	Tr	0	Tr	Tr
00-CAS- 4255	0	0	Tr	Tr	0	Tr	Tr
00-CAS- 4256	0	0	Tr	Tr	0	Tr	Tr
00-CAS- 4258	0	0	0	Tr	0	Tr	Tr
00-CAS- 4259	0	0	Tr	Tr	0	Tr	Tr

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm			Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				
	>1.0 amp		<1.0 amp	>1 amp				
	%Chalcopyrite	%Pyrite	%Goethite	# Grains + Colour Spinel	Colour Spinel	Gahnite	Cr-Andradite	Mn-epidote
00-CAS- 4260	0	0	Tr	0		0		
00-CAS- 4261	0	0	0	0		0		
00-CAS- 4262	0	0	0	0		0		
00-CAS- 4263	0	Tr(3 gr)	0	0		0		
00-CAS- 4264	0	Tr(3 gr)	0	0		0		
00-CAS- 4265	0	Tr(3 gr)	0	0		0		
00-CAS- 4266	0	Tr(~10 gr)	0	0		0		
00-CAS- 4267	0	0	0	0		0		
00-CAS- 4268	0	0	0	0		0		
00-CAS- 4269	0	Tr(1 gr)	0	1 blue-green gahnite		1		
00-CAS- 4270	0	0	0	0		0		
00-CAS- 4274	0	Tr(4 gr)	0	0		0		
00-CAS- 4275	0	Tr(5 gr)	0	0		0		
00-CAS- 4276	0	0	Tr	0		0		
00-CAS- 4301	0	0	0	0		0	2% (~400 gr)	
00-CAS- 4302	0	0	0	0		0	3% (~700 gr)	
00-CAS- 4305	0	0	0	0		0	3% (~800 gr)	
00-CAS- 4308	0	Tr(2 gr)	0	0		0	0.5% (~100 gr)	
00-CAS- 4313	0	0.5%(~100 gr)	0	0		0	Tr (~50 gr)	
00-CAS- 4316	0	0	0	0		0	5% (~1400 gr)	
00-CAS- 4320	0	Tr(2 gr)	0	0		0	1% (~200 gr)	
00-CAS- 4324	0	0	0	0		0	2% (~400 gr)	
00-CAS- 4328	0	0	0	0		0	3% (~500 gr)	
00-CAS- 4344	Tr(1 gr)	0	0	0		0	8% (~2000 gr)	
00-CAS- 4351	0	0	0	0		0	4% (~800 gr)	
00-CAS- 4354	0	0	0	0		0	0.5% (~100 gr)	
00-CAS- 4355	0	0	0	0		0	0.5% (~100 gr)	
00-CAS- 4356	0	0	0	0		0	2% (~400 gr)	
00-CAS- 4357	0	0	0	0		0	Tr (~50 gr)	
00-CAS- 4358	0	0	0	0		0	Tr (~40 gr)	
00-CAS- 4359	0	0	0	1 grey-blue	1	?	1% (~250 gr)	
00-CAS- 4360	0	0	0	0		0	Tr (~100 gr)	
00-CAS- 4361	0	0	0	0		0	Tr (~60 gr)	

Sample Number	Mg/Mn/Al/Cr Minerals 0.25-0.5 mm						
	>1 amp			>0.8 amp	<0.8 amp		
	% Red Rutile	%Kyanite	% Sillimanite	%Staurolite	%Spessartine	% Fayalite	% Orthopyroxene
00-CAS- 4260	Tr(1 gr)	0	0	Tr	0	Tr	Tr
00-CAS- 4261	0	0	0	Tr	0	Tr	0
00-CAS- 4262	0	0	0	0	0	Tr	0
00-CAS- 4263	0	0	0	0	0	Tr	0
00-CAS- 4264	0	0	0	0	0	Tr	0
00-CAS- 4265	0	0	0	0	0	Tr	Tr
00-CAS- 4266	0	0	0	0	0	Tr	0
00-CAS- 4267	0	0	0	Tr	0	0	Tr
00-CAS- 4268	0	0	0	Tr	0	0	Tr
00-CAS- 4269	Tr(2 gr)	0	0	Tr	0	0	Tr
00-CAS- 4270	0	0	0	Tr	Tr	0	Tr
00-CAS- 4274	0	0	0	Tr	0	0	Tr
00-CAS- 4275	0	0	0	Tr	0	0	Tr
00-CAS- 4276	0	0	0	Tr	Tr	0	Tr
00-CAS- 4301	0	0	0	Tr	Tr	7	Tr
00-CAS- 4302	0	0	0	Tr	0	8	Tr
00-CAS- 4305	0	Tr	0	0	0	8	Tr
00-CAS- 4308	0	0	0	0	0	5	2
00-CAS- 4313	0	0	Tr	0	0	7	1
00-CAS- 4316	0	0	0	0	0	10	2
00-CAS- 4320	0	0	0	0	0	10	1
00-CAS- 4324	0	0	0	0	0	2	Tr
00-CAS- 4328	0	0	0	0	0	4	2
00-CAS- 4344	0	0	0	0	0	8	1
00-CAS- 4351	0	0	0	0	0	10	1
00-CAS- 4354	0	0	0	0	0	8	2
00-CAS- 4355	0	0	0	0	Tr	1	1
00-CAS- 4356	Tr(2 gr)	0	0	Tr	0	7	0
00-CAS- 4357	0	0	0	0	0	3	Tr
00-CAS- 4358	0	0	0	0	0	6	1
00-CAS- 4359	0	0	0	0	0	8	Tr
00-CAS- 4360	0	Tr	0	Tr	0	7	Tr
00-CAS- 4361	0	0	0	Tr	0	0.5	Tr

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm			Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				
	>1.0 amp		<1.0 amp	>1 amp				
	%Chalcopyrite	%Pyrite	%Goethite	# Grains + Colour Spinel	Colour Spinel	Gahnite	Cr-Andradite	Mn-epidote
00-CAS- 4362	0	Tr(2 gr)	0	0		0	7% (~2000 gr)	
00-CAS- 4363	0	0	0	0		0	2% (~500 gr)	
00-CAS- 4364	0	0	0	0		0	Tr (~30 gr)	
00-CAS- 4365	0	0	0	0		0		
00-CAS- 4366	0	0	0	0		0	2% (~500 gr)	
00-CAS- 4367	0	Tr(~30 gr)	0	0		0	Tr (1 gr)	
00-CAS- 4368	0	Tr(5 gr)	0	0		0	1% (~250 gr)	
00-CAS- 4369	0	0	0	0		0	1% (~300 gr)	
00-CAS- 4370	0	0	0	0		0	2% (~400 gr)	
00-CAS- 4371	0	Tr(1 gr)	0	0		0	Tr (~100 gr)	
00-CAS- 4372	0	0	0	0		0	Tr (~40 gr)	
00-CAS- 4373	0	Tr(2 gr)	0	0		0	0.5% (~100 gr)	

Sample Number	Mg/Mn/Al/Cr Minerals 0.25-0.5 mm						
	>1 amp			>0.8 amp	<0.8 amp		
	% Red Rutile	%Kyanite	% Sillimanite	%Staurolite	%Spessartine	% Fayalite	% Orthopyroxene
00-CAS- 4362	0	Tr	0	0	0	5	0
00-CAS- 4363	0	0	0	0	0	10	Tr
00-CAS- 4364	0	0	0	0	0	8	Tr
00-CAS- 4365	0	0	0	Tr	0	7	Tr
00-CAS- 4366	0	0	0	Tr	Tr	3	Tr
00-CAS- 4367	0	Tr	0	Tr	0	10	Tr
00-CAS- 4368	0	0	0	Tr	0	3	0
00-CAS- 4369	0	0	0	Tr	0	5	0
00-CAS- 4370	0	0	0	0	0	15	Tr
00-CAS- 4371	0	0	0	Tr	0	7	Tr
00-CAS- 4372	0	0	0	0	0	8	Tr
00-CAS- 4373	Tr(1 gr)	0	0	0	0	10	0

APPENDIX S

Kimberlite Indicator Minerals Picked From Heavy Mineral Concentrate (HMC)

The grain totals in this table are not confirmed by Microprobe analysis
Number in brackets indicates the total number of grains seen in sample when not all grains were picked.

Summary of Abbreviations:

GP	Purple Garnet
GO	Orange Garnet
DC	Cr-diopside
IM	Ilmenite
CR	Chromite
FO	Olivine

Sample Number	Selected PseudoKIMs 1.0-2.0 mm Low-Cr diopside	0.5-1.0 mm Low-Cr diopside	0.25-0.5 mm Low-Cr diopside	1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm						Total KIMs
				GP	GO	DC	IM	CR	FO*	GP	GO	DC	IM	CR	FO*	GP	GO*	DC	IM*	CR	FO*	
OO-CAS- 4001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4066	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4071	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4076	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4107	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4151	0	5	10(30)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4161	0	1	5(20)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
OO-CAS- 4164	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4165	0	0	5(20)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4169	1	4	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4175	0	0	15(50)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4181	0	2	20(40)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4185	0	3	20(50)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4192	0	2	20(50)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4198	0	6	20(30)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4203	0	5	25(60)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
OO-CAS- 4251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4255	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4256	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2
OO-CAS- 4258	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

Sample Number	Selected PseudoKIMs 1.0-2.0 mm Low-Cr diopside	0.5-1.0 mm Low-Cr diopside	0.25-0.5 mm Low-Cr diopside	1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm						Total KIMs
				GP	GO	DC	IM	CR	FO*	GP	GO	DC	IM	CR	FO*	GP	GO*	DC	IM*	CR	FO*	
OO-CAS- 4259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4260	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4270	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4276	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4301	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
OO-CAS- 4305	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4308	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9(40)	0	40
OO-CAS- 4313	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	29(200)	0	202
OO-CAS- 4316	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5(30)	0	30
OO-CAS- 4324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4328	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	25(200)	0	201
OO-CAS- 4344	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4351	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4354	0	0	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	7(30)	0	31
OO-CAS- 4355	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3(5)	0	5
OO-CAS- 4357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
OO-CAS- 4358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11(30)	0	30
OO-CAS- 4359	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10(30)	0	30

Sample Number	Selected PseudoKIMs 1.0-2.0 mm Low-Cr diopside	0.5-1.0 mm Low-Cr diopside	0.25-0.5 mm Low-Cr diopside	1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm						Total KIMs
				GP	GO	DC	IM	CR	FO*	GP	GO	DC	IM	CR	FO*	GP	GO*	DC	IM*	CR	FO*	
OO-CAS- 4360	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4361	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
OO-CAS- 4362	0	1	15(50)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9(30)	0	30
OO-CAS- 4363	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4364	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
OO-CAS- 4365	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8(30)	0	30
OO-CAS- 4367	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7
OO-CAS- 4368	0	2	11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5(20)	0	21
OO-CAS- 4369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
OO-CAS- 4370	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OO-CAS- 4371	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2(5)	0	5
OO-CAS- 4372	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10(20)	0	20
OO-CAS- 4373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

Photo 1. Chrome-andradite garnets from sample number 00-CAS-4362. Scale bar is 1 mm spacing.

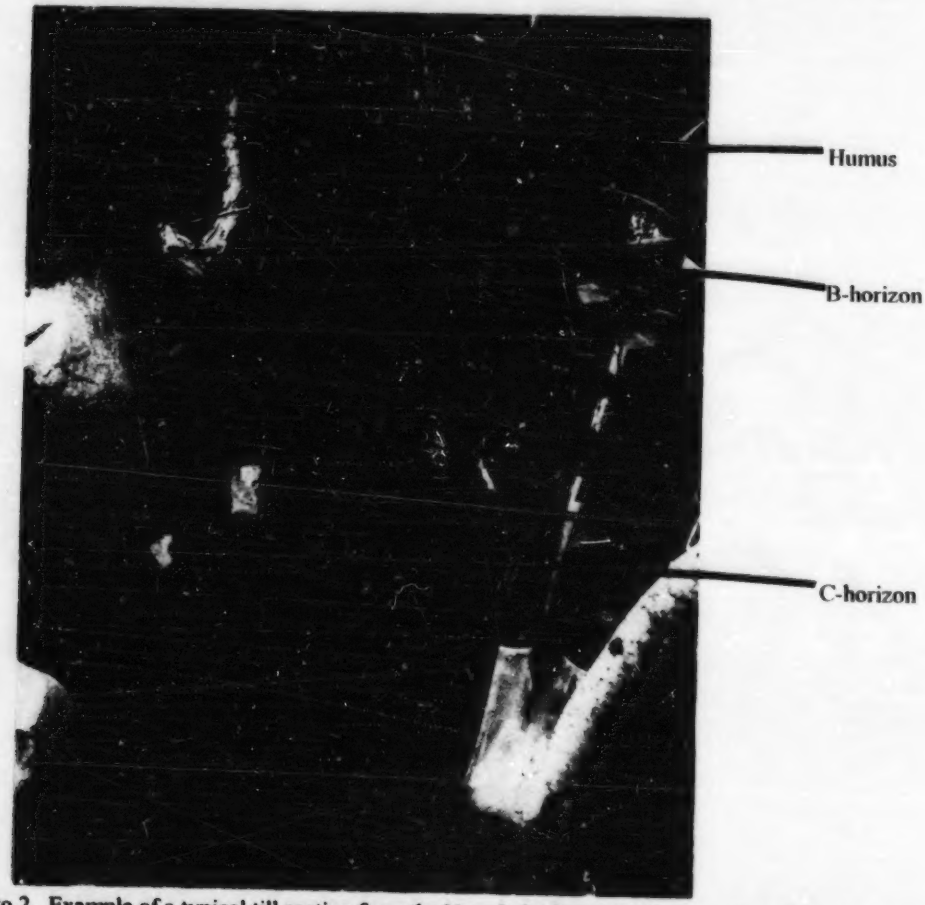


Photo 2. Example of a typical till section from the Nym Lake Property, Northwestern Ontario.